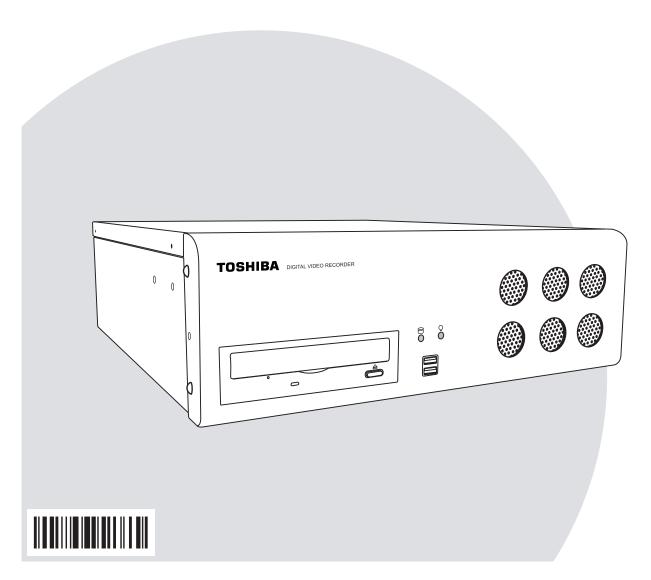


IPR Network Video Recorder

User Manual

model no.

IPR8-X IPR16-X



Please carefully read these instructions before using this product. Save this manual for future use.

TOSHIBA

Surveillix™ IPR User Guide

Manual Edition 27810AF - NOVEMBER 2008

Printed in USA

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The following words and symbols mark special messages throughout this guide:



WARNING: Text set off in this manner indicates that failure to follow directions could result in bodily harm or loss of life.



CAUTION: Text set off in this manner indicates that failure to follow directions could result in damage to equipment or loss of information.

LIMITED WARRANTY NETWORK VIDEO RECORDER

The Imaging Systems Division of Toshiba America Information Systems, Inc. ("ISD") makes the following limited warranties. These limited warranties extend to the Original End-User ("You[r]").

Limited Two (2) Year Warranty of Labor and Parts

The Imaging Systems Division of Toshiba America Information Systems warrants this product and parts against defects in material or workmanship for a period of two years from the date of original retail purchase by the end-user. During this period, ISD will repair or replace a defective product or part with a new or refurbished item. The user must deliver the entire product to the Surveillix DVR Repair Facility. The user is responsible for all transportation and insurance charges for the product to the DVR Repair Facility. ISD reserves the right to substitute Factory Refurbished Parts and / or Factory Refurbished Product in place of those in need of repair.

Step-by-step Procedures - How to Obtain Warranty Service

[1] Verify operation of the unit by checking the instruction manual and web site for the latest updates at

www.toshiba.com/taisisd

[2] If there is a defect in material or workmanship, contact the Surveillix DVR Support Center at (877) 855-1349 [877-1-FIX] to speak to a technical support representative and schedule service.

[3] Arrange for delivery of the product to the Surveillix DVR Repair Facility. Products must be insured and securely packed, preferably in the original shipping carton. A letter explaining the defect and a copy of the bill of sale or other proof of purchase must be enclosed with a complete return street address and daytime telephone number. The Tracking Number should also be indicated on your documents. Charges for transportation and insurance must be prepaid by the end-user.

Critical Use Disclaimer

The product is not designed for any "critical applications." "Critical applications" means life support systems, exhaust or smoke extraction applications, medical applications, commercial aviation, mass transit applications, military applications, homeland security applications, nuclear facilities or systems or any other applications where product failure could lead to injury to persons or loss of life or catastrophic property damage. Accordingly, Toshiba disclaims any and all liability arising out of the use of the product in any critical applications.

Your Responsibilities

The above warranty is subject to the following conditions:

- [1] You must retain the bill of sale or provide other proof of purchase.
- [2] You must schedule service within thirty days after you discover a defective product or part.
- [3] All warranty servicing of this product must be made by the Surveillix DVR Repair Facility.
- [4] The warranty extends to defects in material or workmanship as limited above, and not to any products or parts that have been lost or discarded by user. The warranty does not cover damage caused by misuse, accident, improper installation, improper maintenance, or use in violation of instructions furnished by ISD. The warranty does not extend to units which have been altered or modified without authorization of ISD, or to damage to products or parts thereof which have had the serial number removed, altered defaced or rendered illegible.

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No person, agent, distributor, dealer, service station or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of ISD arising under this warranty or under any statute, or law of the United States or any state thereof, is hereby limited to one year from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law. Some states do not permit limitation of the time within which you may bring an action beyond the limits provided by state law so the above provision may not apply to user. This warranty gives the user specific legal rights, and user may also have other rights, which may vary from state to state.

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TOSHIBA

IMPORTANT SAFEGUARDS

- Read Owner's Manual After unpacking this product, read the owner's manual carefully, and follow all the operating and other instruction
- 2. Power Sources This product should be operated only from the type of power source indicated on the label. If not sure of the type of power supply to your home or business, consult product dealer or local power company
- 3. **Ventilation** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 4. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
- 5. Water and Moisture Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in the Appendix section in this manual
- **6. Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 7. Power Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 8. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
- **9. Lightning** For added protection for this product during storm, or when it is left unattended and unused for long periods, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.
- 10. Object and Liquid Entry Points Never insert foreign objects into the IPR unit, other than the media types approved by Toshiba, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.
- 11. Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious personal injury and serious damage to the product.
- 12. Disc Tray Keep fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
- **13. Burden** Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.
- **14. Disc** Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

IMPORTANT SAFEGUARDS, continued

15. Damage Requiring Service – Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:

When the power-supply cord or plug is damaged.

If liquid has been spilled, or objects have fallen into the unit.

If the unit has been exposed to rain or water.

If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.

If the unit has been dropped or the enclosure has been damaged.

When the unit exhibits a distinct change in performance – this indicates a need for service.

- 16. Servicing Do not attempt to service this product as opening or removing covers may expose the user to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
- 17. **Replacement Parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
- **18. Safety Check** Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

NOTES ON HANDLING

Please retain the original shipping carton and/or packing materials supplied with this product. To ensure the integrity of this product when shipping or moving, repackage the unit as it was originally received from the manufacturer.

Do not use volatile liquids, such as aerosol spray, near this product. Do not leave rubber or plastic objects in contact with this product for extended periods of time. Rubber or plastic objects left in contact with this product for extended periods of time will leave marks on the finish.

The top and rear panels of the unit may become warm after long periods of use. This is not a malfunction.

NOTES ON LOCATING

Place this unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand.

If this unit is placed next to a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. If this happens, place the IPR unit away from the TV, radio, or VCR.

NOTES ON CLEANING

Use a soft dry cloth for cleaning.

For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the IPR unit.

If using a chemical saturated cloth to clean the unit, follow that product's instructions.

NOTES ON MAINTENANCE

This IPR unit is designed to last for long periods of time. To keep the IPR unit always operational we recommend regular inspection maintenance (cleaning parts or replacement). For details, contact the nearest dealer.

NOTES ON MOISTURE CONDENSATION

Moisture condensation damages the IPR unit. Read the following information carefully.

Moisture condensation occurs during the following cases:

When this product is brought directly from a cool location to a warm location.

When this product is moved to a hot and humid location from a cool location.

When this product is moved to a cool and humid location from a warm location.

When this product is used in a room where the temperature fluctuates.

When this product is used near an air-conditioning unit vent

When this product is used in a humid location.

Do not use the IPR unit when moisture condensation may occur.

If the IPR unit is used in such a situation, it may damage discs and internal parts. Remove any DVD discs, connect the power cord of the IPR unit to the wall outlet, turn on the IPR unit, and leave it for two to three hours. After two to three hours, the IPR unit will warm up and evaporate any moisture. Keep the IPR unit connected to the wall and moisture will seldom occur.

WARNING

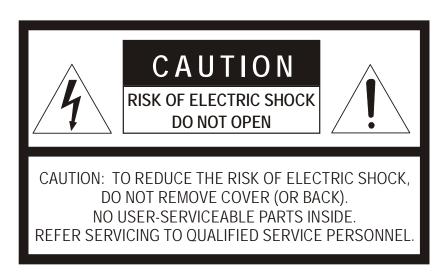
TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE.

DO NOT OPEN THE CABINET.

REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION



EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

RACK MOUNT INSTRUCTIONS

Elevated Operating Ambient – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

Reduced Air Flow – Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading – Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Grounding – Grounding of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

UL NOTICE

Underwriters Laboratories Inc. has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock and casualty hazards as outlined in UL's Standard for Safety UL 60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects if this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.

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PREFACE

ABOUT THIS GUIDE

This manual is a setup and maintenance guide that can be used for reference when setting up the IPR unit and for troubleshooting when a problem occurs. Only authorized personnel should attempt to repair this unit.

Toshiba reserves the right to make changes to the IPR units represented by this manual without notice.

The following text and symbols mark special messages throughout this guide:

NOTE: Text set off in this manner indicates topics of interests that can help the user understand the product better.

TIP: Text set off in this manner indicates topics and points of interests that can be helpful when using or settings up the IPR unit.

TECHNICIAN NOTES



WARNING: Only authorized technicians trained by Toshiba should attempt to repair this IPR unit. All troubleshooting and repair procedures that may be shown are for reference and minor repair only. Because of the complexity of the individual components and subassemblies, no one should attempt to make repairs at the component level or to make modifications to any printed wiring board. Improper repairs can create a safety hazard. And any indications of component replacement or printed wiring board modifications may void any warranty.

WARNING: To reduce the risk of electrical shock or damage to the equipment:



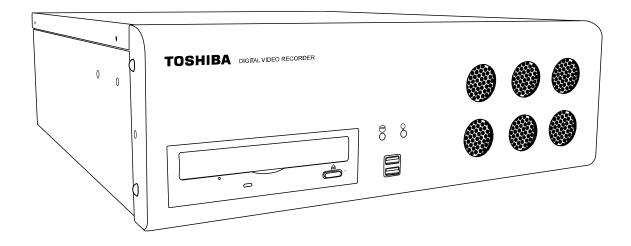
- Do not disable the power grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- Disconnect the power from the computer by unplugging the power cord either from the electrical outlet or the computer.



CAUTION: To properly ventilate your system, you must provide at least 3 inches (7.6 cm) of clearance at the front and back of the IPR unit.

INTRODUCTION

PRODUCT DESCRIPTION



A Surveillix IPR is simply a server that performs as a High Definition Digital Recorder. By utilizing the many features of a computer, including processing power, storage capacity, graphics compression, and security features, the IPR unit is more powerful than the analog recorders of the past.

The Surveillix IPR server software comes pre-configured for fast and seamless integration within your existing IT infrastructure. Designed around Microsoft® Windows® XP Embedded, the server software offers unparalleled stability, security, and ease of use. Accordingly, your security investment has never been easier to maintain. Multiple users may simultaneously connect through any network connection for instantaneous live viewing, digital search, and off site video storage. Users can also connect remotely through DSL, Cable Modems, ISDN, or 56K dial-up. This powerful software enables users to establish recording schedules, create motion detection zones, use PTZ controls, and configure alarm inputs and outputs for each of the system's cameras. With the latest advancements in the IPR Server Software, searching and indexing your video archive has never been easier. Video can now be found, viewed, and exported in a number of file formats with just a few clicks.

The Surveillix IPR is high performance security product ready to meet today's security demands.

FEATURES

Toshiba's Surveillix IPRs include the following new features:

Optimized and Designed for Microsoft® Windows XP Embedded®

Up to 16 Network Based Video Inputs

Remote System Operation & Configuration

Supports Multiple Simultaneous Remote Connections

PAN / TILT / ZOOM Controls via IP Protocols

Simultaneous Video Search, Playback and Backup

Video Indexes for Easy Searching

Multiple Levels of Security Access

Up to 1 Channel of Audio Recording

Up to 1 Terabyte Internal Storage

High Performance, Durable, Rack mount Case

Output the Video to a NTSC/PAL Display

Digital Signature Support

Continuous, Motion Detection, Alarm, Pre-Alarm, and Scheduled Recording Modes

Records at the encoding resolution of the network camera

Multi-Site Management Software Support (optional upgrade)

CONTROLS AND CONNECTIONS

This chapter includes the following information:

- Input / Output Connector Locations
- Front Panel Controls and LEDs
- Rear Panel Connectors

SYSTEM SPECIFICATIONS

Surveillix[™] state-of-the-art Network Video Recorders are housed in a high performance and versatile 3U Rack-Mount case allowing easy storage of multiple IPRs for enterprise applications. Every Surveillix IPR unit comes equipped with the latest technology:

Intel® Pentium® IV Processor

100/1000 Gigabit Ethernet

512 MB (8 Channel) / 1 GB (16 Channel) of System Memory

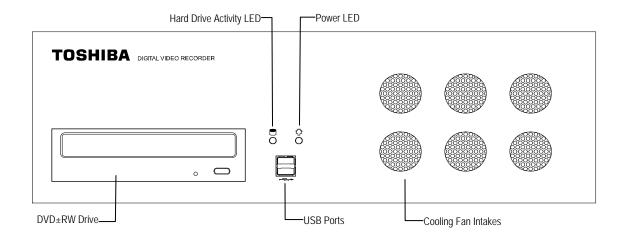
128 MB Video Card

DVD RW Recorder

250 GB Video Storage Drive (minimum)

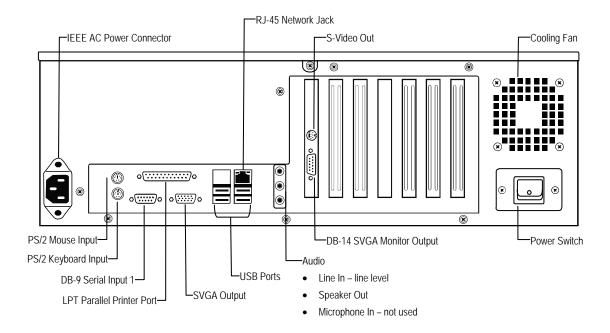
FRONT PANEL CONTROLS AND LEDS

The front panel of the IPR unit contains the devices that will be commonly used for data removal, retrieval, and backup replacement. The most common components and buttons are shown below:



REAR PANEL CONNECTORS

The rear panel of the IPR unit contains the connectors used to attach cameras, sensors, and relays to the IPR. Below are diagrams that outline the location and description of each connector:



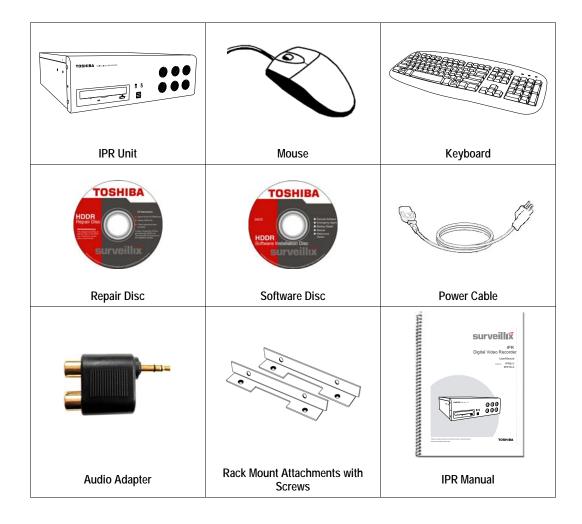
GETTING STARTED

This chapter includes the following information:

- Included Components
- Setting Up the IPR Hardware
- Optional Components

IDENTIFYING INCLUDED COMPONENTS

SurveillixTM IPRs come with a mouse, keyboard and selected software and cables. Identify the following components to make sure everything has been properly included with the new IPR unit. If any of the following items are missing, contact the dealer to arrange a replacement.

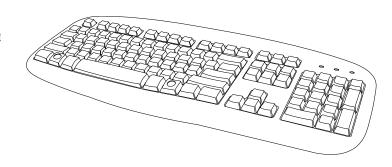


KEYBOARD SETUP

To attach the keyboard to the IPR unit, plug the end of the Keyboard into the keyboard PS/2 Port located on the back of the machine.

The keyboard PS/2 Port can be identified by the purple color.

Refer to the Rear Panel Connectors diagram for more information.



MOUSE SETUP

To attach the mouse to the IPR unit, plug the end of the mouse into the mouse PS/2 Port located on the back of the machine. The mouse PS/2 Port can be identified by the green color.

The mouse uses a cursor called a pointer. Pointers come in many different shapes but are most commonly shaped like an arrow.

The mouse has two buttons: a left button and a right button. Quickly pressing and releasing one of these buttons is called clicking. Sometimes you will need to double-click – or click the same button twice quickly.

In this manual:

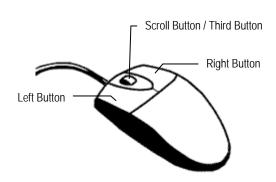
Click means to position the mouse cursor over an item and to single click the left button.

Right click means to position the mouse cursor over an item and to single click the right button.

Double-click means to position the mouse cursor over an item and to click the left button twice.

Select means to position the mouse cursor over a radio button, checkbox, or list item and click on it.

The scroll wheel in between the two buttons is used for added navigation functionality. By moving the wheel with index finger (scrolling), quickly move through multiple pages, lines, or windows. The wheel may also function as a third button allowing the user to quickly click or double-click an icon or a selected item.



MONITOR SETUP

The IPR may have one or both of the following connections available for monitors which can be used individually or in tandem.



SVGA Output*

To VGA Monitor.

* Use the SVGA Output on the Video Card labeled as the *DB-14 SVGA Monitor Output* on the Rear Panel Connectors diagram.



S-Video Output

To TV/VCR.

Attach the monitor or monitors to the rear of the IPR unit using the cable supplied by the monitor manufacturer. Refer to the monitor manual for detailed information on how to setup and use it.

NOTE: The monitor must be capable of having a screen resolution of 1024 x 768 and display colors of at least 32 Bit.

POWER SETUP



WARNING:

To reduce the risk of electrical shock or damage to the equipment:

Do not disable the power grounding plug.

The grounding plug is an important safety feature.

If the electrical plug you are using does not have a ground plug receptacle contact a licensed electrician to have it replaced with a grounded electrical outlet.

Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.

Disconnect the power from the computer by unplugging the power cord either from the electrical outlet or the computer.

TURNING ON THE IPR

- 1. Turn on the monitor and any external peripherals (ex. Printers, External Storage Devices, etc.) connected to the IPR unit.
- 2. Turn on the Power Switch located in the rear of the IPR unit.
- 3. The IPR will run a series of self-tests. After two or three minutes, a series of messages may be displayed as the various hardware and software subsystems are activated. Under normal circumstances, users should not be asked to respond to these messages. If asked to respond to the messages (adding a Printer, Monitor, etc for the first time) follow the instructions carefully.
- 4. Startup is complete when the Surveillix™ IPR software is finished loading and displays the main menu screen.

TURNING OFF THE IPR

- 1. Click the Exit Button on the main menu screen of the IPR software.
- 2. Select Power Off from the drop down menu, which appears in the Power Off prompt, and click OK.

The IPR unit may take several minutes to shut down completely.

CAUTION: Always be sure to follow the proper procedures when turning off the power to the IPR unit. NEVER disconnect the power to the IPR unit while it is still running or in the process of shutting down. Doing so can cause data loss, file corruption, system instability and hardware failure.

IPR BASICS

This chapter includes the following information:

- Registration and Upgrade
- Turning the IPR on and off
- Becoming familiar with the Display screen
- Defining Screen Divisions

IPR REGISTRATION

Important Information

Have the following information on hand before registering the IPR upgrade:

IPR Software Serial Number: The Product Serial Number is the unique number that Toshiba provided with the software.

System ID: The System ID is a number generated by the IPR Software. This is a unique code generated using the MAC address of the computer running the software. The following steps illustrate how to obtain the unique System ID.

Locating the System ID

- 1. Enter Setup.
- 2. Click Camera Setup.
- 3. Click the Registration Button.
- In the Network Device Authentication Window, the System ID is located in the "Add a new Serial Key" section.



Obtaining an Unlock Code

The following steps are provided to assist in registering the IPR upgrade.

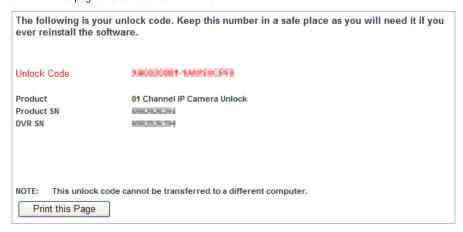
- 1. Open an Internet browser and to http://register.surveillixdvrsupport.com
- 2. Enter the Product Serial Number provided by Toshiba.
- 3. Enter the System ID generated by the IPR Software.
- Click Submit.

Product Serial Number			
System ID			
Submit			

- 5. Verify the information.
- 6. Click Next if the information provided is correct.



- 7. Once the information is validated, the unlock code will be generated.
- 8. Print the page and save for later reference.



Unlocking a New Network Device

After obtaining your unlock code from the Toshiba Surveillix Registration Site, follow theses steps to unlock your new upgrades on your Surveillix IPR.

- 1. Start the Surveillix IPR.
- 2. Enter Setup.
- 3. Enter Camera Setup.
- 4. Click the Registration Button.
- Enter the Unlock Code generated by the Surveillix Registration Site into the "new serial number" field.
- 6. Click Add a Serial Number.
- Once the new serial number has been added to the list, click OK.

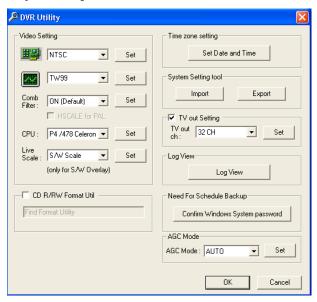


EXPORTING IPR SETTINGS

Exporting IPR settings can help configure multiple IPRs quickly or reconfigure a unit that has failed. Some things must be kept in mind when using this feature.

You cannot use this function on:

- IPRs that are different models.
- When upgrading from certain software versions. You cannot use this feature when upgrading from v1.x to v2.x
- Exit to Windows by clicking the Exit Button on the Main Display Screen and selecting Restart in Windows Mode. (See the Display Screen section later in this chapter)
- 2. Click Start > Programs > Surveillix > VFormat
- 3. Click the Export Button in the System Settings tool section.



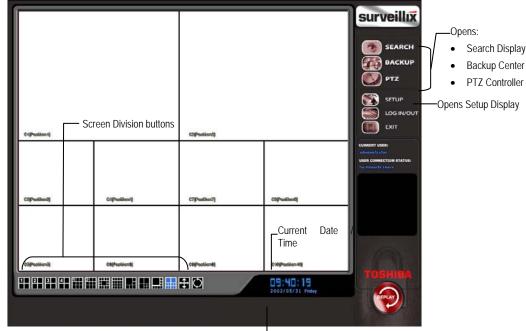
- 4. Select a location to save the settings file and click Save. The DVR Utility will export the IPR settings and automatically close.
- Click the OK Button to close the VFormat Utility.

IMPORTING IPR SETTINGS

- 1. Exit to Windows by clicking the Exit Button on the Main Display Screen and selecting Restart in Windows Mode. (See the Display Screen section later in this chapter.)
- 2. Click Start > Programs > Surveillix > VFormat.
- 3. Click the Import Button in the System Settings Tool section.
- 4. Select the location of the settings file to import and click Open.
- 5. Click Yes to import the data file.
- 6. Click the OK Button to close the VFormat Utility.

DISPLAY SCREEN

Each time the IPR is started, the program defaults to the Display screen. The following diagram outlines the buttons and features used on the Display screen. You should become familiar with these options as this is the screen that will be displayed the majority of the time.



LOpen TV Out Options

Live Camera Options

Right-click a live camera to display these options:

- Full Screen
- Instant Recording
- Search In Live



CAMERA VIEW

The Camera status for each camera is displayed next to the Camera number (or name) on the Video Display Area.



Recording Status Indicator

The camera status for each camera is displayed in the upper right corner on the Video Display Area. The following are the different states for each camera:

•	Recording	Displayed when the camera is currently being recorded to the IPR unit.
00	Motion Detection	Displayed when a camera (set up for motion detection) detects motion.
	Display	Displayed when the camera is currently not being recorded to the IPR unit.

There are two types of IPR Special Recording. Text is displayed on the camera indicating what type of Special Recording is activated.

SENSOR Sensor is displayed when a sensor, associated with a given camera, is activated.

Instant Recording is a manual activation of the recording for the selected camera. Regardless of the recording method, Instant Recording will start the camera recording and also flag the video for future searches using the Index Search feature. INSTANT is displayed when a user activates the instant recording option. Double Right-Click the video display to activate and deactivate the Instant Recording option.

INSTANT

SCREEN DIVISION MENU

4

The Screen Division Menu allows you to view cameras in groups such as two by two, three by three and four by four. The button options are shown below.

1	1st Four Cameras View - Displays cameras 1-4 in the Video Display Area. To return to a different Multi-Camera View,
	select a different Screen Division option from the Screen Division Menu.

2nd Four Cameras View – Displays cameras 5-8 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.

3rd Four Cameras View – Displays cameras 9-12 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.

4th Four Cameras View – Displays cameras 13-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.

1st Nine Cameras View – Displays cameras 1-9 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.

2nd Nine Camera View – Displays cameras 8-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.

Multi-Camera View – Displays a group of cameras within the Video Display Area.

All Camera View – Displays all 16 cameras within the Video Display Area.

Multi-Camera View – Displays a group of cameras within the Video Display Area.

Multi-Camera View – Displays a group of cameras within the Video Display Area.

Full Screen – The Full Screen Option allows you to view the Video Display Area using the entire viewable area on the monitor. When this is selected, no menu options are visible. You can activate the Full Screen Option by clicking on the Full Screen Button within the Screen Division Menu. You can deactivate Full Screen mode by right clicking on the screen.

Auto Sequence – Sequences through the Screen Divisions sets. For example, selecting the 1A and then the Loop Button will sequence through 1A, 2A, 3A, 4A and then repeat. This option is not available for the 7, 10 and 13 screen divisions.

SETUP OPTIONS

This chapter includes the following information:

- Setup Overview
- Add Network Recording Device
- Channels
- Color
- Schedule
- Speed
- Motion Detect
- Password
- Pan/Tilt
- Audio

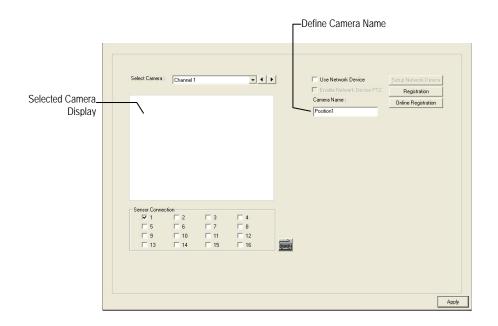
SETUP OVERVIEW

The Setup options allow you to optimize the IPR unit by adjusting things like camera names, reboot schedules, recording schedules and more. It is extremely important that you setup the IPR correctly for several reasons.

- Recording Schedules By optimizing the recording schedule you can increase the
 amount of pertinent recorded video that is saved on the IPR and keep it longer. You
 can optimize the type of recording done by adding motion detection to this as well,
 again increasing the amount of useful video.
- IPR Access By setting up the access passwords you can tightly control the types of access an individual may have. This ensures the security and integrity of the IPR unit.
- Camera Naming By naming each camera you can easily identify the location and any other pertinent information that may be helpful simply by viewing it on the Video Display Area.
- Adjusting Camera Color By adjusting each camera's color settings you can
 optimize the clarity and detail that is recorded.



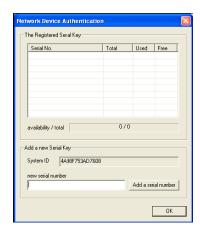
CAMERA SETUP



Select Camera	Selects the camera to be edited.	
Selected Camera Display	Displays the live camera feed from the camera selected.	
Sensor Connection	Specify which sensors are currently in use.	
Enable Network Device PTZ	Enables setup and use of Network Camera and PTZ Functionality.	
Setup Network Device	Opens the Network Device Setup menu.	
Registration	Opens the Registration menu for entering Unlock Codes to activate the software.	
Online Registration	Opens the Online Registration menu for activating pre-registered software.	
Camera Name	Specify a name for each camera.	

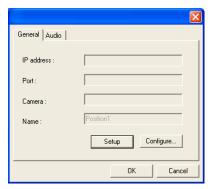
Unlocking a New Network Camera

- 1. Start the Surveillix IPR.
- 2. Enter Setup.
- 3. Enter Camera Setup.
- 4. Click the Registration button.
- 5. Enter the Unlock Code generated by the Toshiba Registration Site into the "new serial number" box.
- 6. Click Add a serial number.
- Once the new serial number has been added to the list, click OK.



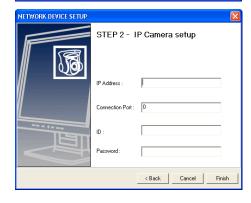
Connecting a Network Camera

- 1. Open Camera Setup. Setup > Camera Setup.
- 2. Select the camera channel to add a Network Device to.
- 3. Check the Use Network Device Box.
- If the Network Device supports PTZ check the Enable Network Device PTZ Box.
- Click Setup Network Device and the Network Device Properties window will appear.
- 6. Click Setup to add a Network Device.
- Select the Manufacturer (Class) and Model of camera being added then click Next.





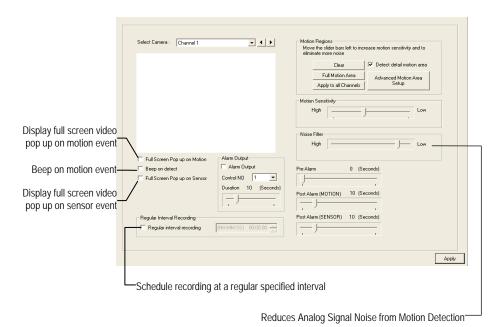
- 8. Enter the IP Address, Port, ID, and Password of the Network Device and click Finish.
- Click OK when returned to the main Network Device Properties window.
- 10. Click Apply and then click OK to exit the main setup window.
- 11. The Network Device has been added.



MOTION SETUP

The IPR allows the user to adjust several different Motion Settings and create motion detection regions.

NOTE: Motion grids configured using the SCS software will be advanced motion grids.



Creating a Motion Area

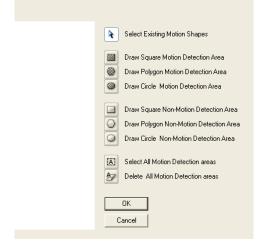
- 1. Click the Motion button in Setup.
- 2. Select a camera from the Select Camera list.
- 3. Select the Detect Detail Motion Area check box.
- 4. Click Clear.
- 5. Click Advanced Motion Area Setup.
- 6. Click a Motion Detection Area shape button.
- 7. Drag the mouse over the camera image.

TIP: To create a polygon shape, click the mouse at each point and double-click to close the shape.

- 8. Click OK.
- 9. Move the sliders to adjust motion sensitivity and the noise filter.
- Define the pre-alarm and post-alarm recording time for a motion event.

Pre Alarm – 0 > 50 Seconds [The number of seconds the IPR records before motion is detected]

Post Alarm (MOTION) – 0 > 50 Seconds [The number of seconds the IPR records after motion is detected]



Removing a Motion Area

To remove the motion areas, in the Motion Regions area, click Clear.

Activating an Alarm on a Motion Event

- 1. In the Motion Setup window, select a camera to edit from the list.
- 2. Create a motion area.
- 3. Select the Alarm Output check box.
- 4. Select a Control Output to activate for the selected camera.
- 5. Select the duration to activate the Alarm when a motion event occurs.



Regular Interval Recording

Regular Interval Recording allows users to record a single frame every few minutes or hours when there is no motion. This option is only available when Motion recording or Sensor recording is setup.

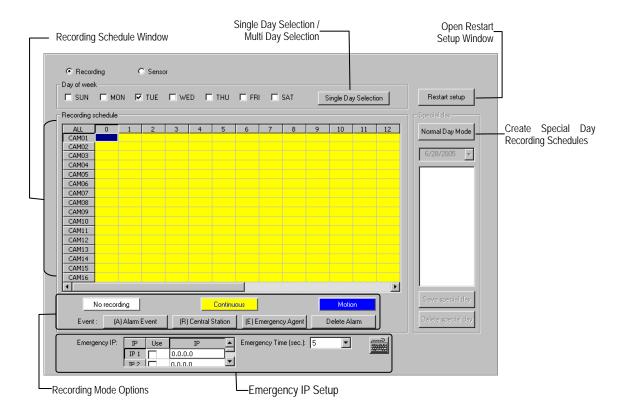
To enable Regular Interval Recording:

- 1. Select the Regular Interval Recording check box.
- 2. Specify how often to take an image when no motion is occurring. Users can go as little as one image per second.

SCHEDULE SETUP

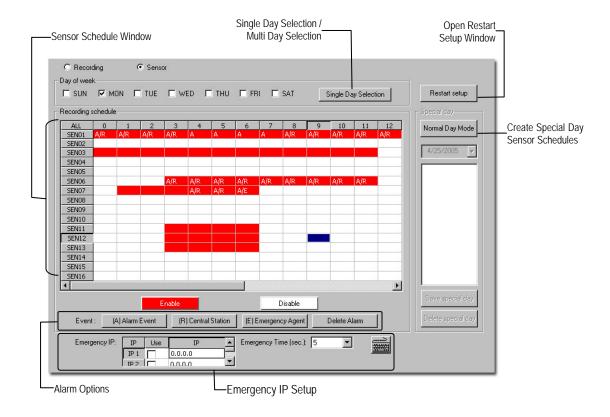
Recording Schedule

The Recording Schedule window allows the user to create different recording schedules based on the day, time, and type of recording desired. In addition, this window contains the System Restart options that allow the user to perform basic system maintenance by automatically scheduling the IPR to restart periodically.



Sensor Schedule

The sensors will supersede all other types of recording modes (Motion, Continuous, No Recording). Regardless of the recording schedule of a particular camera, if a sensor event occurs the associated cameras will begin recording as a Sensor Event. Sensor Recordings will be flagged and searchable using the Index Search Mode. Cameras are associated to sensors in the Camera Setup Menu.



Create a Recording Schedule

- Select a day to begin creating the schedule for -or- Select the Day Selection Mode button, enabling Multi Day Selection, to create the same schedule for multiple days.
- Highlight the Time-Blocks within the Recording Schedule window for the camera(s) selected to schedule. Once the desired
 Time-Blocks are highlighted, click a Recording Mode button. The Time-Blocks should now appear Blue for Motion, Yellow for
 Continuous and White for No Recording

NOTE: Leave cameras recording with Sensor Detection set to No Recording for the specified time block(s).

Create a Sensor Schedule

- Select the Schedule Menu option and select the Sensor Radio button. Select a single day or click the Day Selection Mode button to include multiple days in the schedule.
- 2. Highlight the Time-Blocks within the Recording Schedule window for the sensor(s) to enable and schedule. Once the time blocks are highlighted click the Enable button. The time block will now appear red.

Scheduling Alarm Events

There are three types of Alarm Events:

ALARM EVENT: This option logs the Alarm Events on the local server.

CENTRAL STATION: This option sends the Alarm Events to Central Station software.

EMERGENCY AGENT: This option sends the Alarm Event to the Emergency Agent software.

Motion can be designated as an Alarm event. Often motion does not need to be treated as an Alarm event. Ex: During work hours motion that occurs is expected and should not be treated as an Alarm. However, after business hours are over, any motion that occurs should be treated as an Alarm.

- 1. Select the Schedule Menu Select either Recording or Sensor
- Highlight time blocks in the schedule that have been set to Motion (or Sensor) and click the desired Event buttons (Alarm Event, Central Station, Emergency Agent). A corresponding letter will display in the selected time blocks

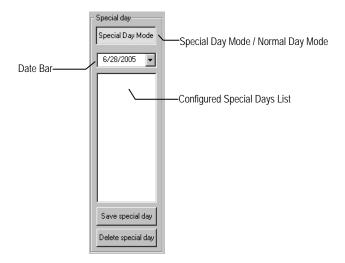
Emergency Agent Schedule

Video recording triggered by motion or sensor events can be sent to the Emergency Agent software.

- 1. Enable the Emergency Agent Event (see Scheduling Alarm Events above)
- 2. Enter the IP Address of a PC running the Emergency Agent software in the IP Address
- Select the box next to the IP Address to enable it. Only one IP Address is supported at a time.
- 4. Enter the recording duration (in seconds) in the Emergency Time box.
- 5. See the Emergency Agent chapter for detailed information on setting up the Emergency Agent software.

Special Day Schedule

The user can create days that have a unique recording schedule. If necessary create these on days that are 'not typical' such as Holidays, Special Events, etc.



Creating/Editing a 'Special Day' Schedule

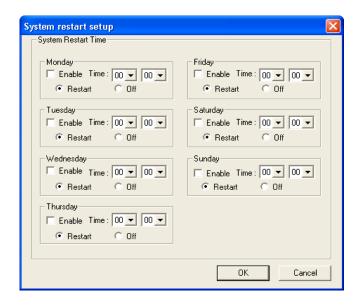
- 1. Click the Normal Day Mode button to enable the Special Day Mode.
- 2. Select a day by typing the date or clicking the arrow to the right of the Date Bar.
- 3. Highlight the time-blocks within the Recording Schedule window for the camera(s) selected to schedule. Once the desired Time-Blocks are highlighted, click a Recording Mode button.
- 4. When finished creating the schedule click the Save Special Day button. The special day should now appear as a date in the Special Day Schedule.

Deleting a 'Special Day' Schedule

- 1. Select a Special Day from the Special Day Schedules
- 2. Click the Delete Special Day button.

System Restart Setup

System Restart Setup allows the user to define a schedule wherein the IPR automatically restarts according to specified parameters.



Create System Restart Schedule

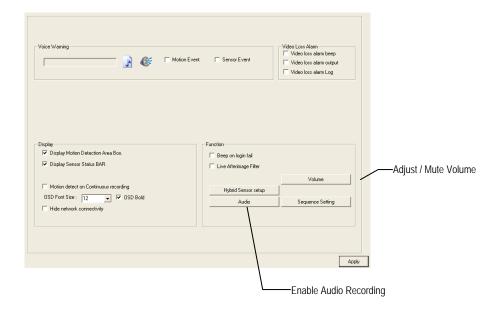
- 1. Open the Schedule Setup Display
- 2. Click the System Restart button
- 3. Select the day(s) of the week to schedule an automatic system restart and select the box to enable shut down

NOTE: This step alone does not trigger the IPR to restart, only to shut down.

- 4. Specify the time of day to schedule the system restart
- 5. Select the Restart Radio button

NOTE: If the Off Radio button is selected the IPR will shut down at the specified time but not restart.

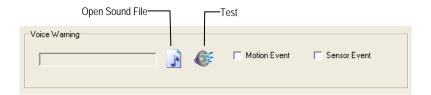
GENERAL SETUP



Beep on Login Fail	Enables the IPR to beep continuously in response to a failed login attempt. Only an authorized login will stop the beeping.
Sequence Setting	Allows the video out picture to automatically cycle through channels at a set speed. Ex: .Cycle through channels 1-6 at 4 second intervals.

Voice Warning

The IPR allows users to play a sound file when either a Motion event or Sensor event occur. This file can be a custom created sound file that is unique to the application. The selected WAV file is played through speakers attached to the IPR.



- 1. Click the Open Sound File icon to browse for a WAV file. The selected file will display in the box on the left.
- 2. Click the Test icon to verify the audio file.
- 3. Select Motion Event and/or Sensor Event to trigger the audio file.

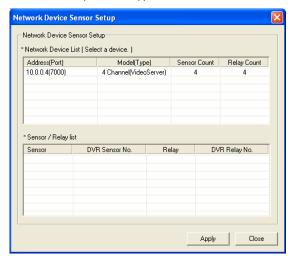
Video Loss Alarm

The IPR Software supports a Video Loss Alarm function, which allows an Alarm Event to log when a camera loses its signal. The lost signal can be due to Power failure to the network device, the network device cable being cut or unplugged, or the network device being damaged in some way.

Video Loss Alarm Beep	When Video Loss occurs the speaker attached to the IPR will sound an alarm.
Video Loss Alarm Log	Records the Video Loss Alarm Events to the log files.

Hybrid Sensor Setup

This interface is used to link Hard Contact Sensor Inputs from supported Network Devices to the IPR Software.

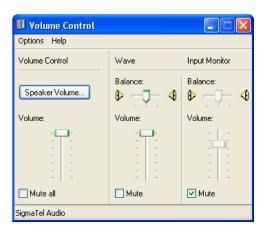


Volume

The volume control allows fine tuning of the volume settings on the IPR.

Volume Options:

- Slider Controls Used to adjust the literal volume for the respective devices listed.
- Mute Checkbox Check the mute box to mute volume on any of the device columns or check the Mute All checkbox to mute all volume on the IPR.



Audio

The Surveillix IPR is capable of recording one channe of audio.

AUDIO FEATURES:

- 8000 Hz playback in Live Mode
- Up to 48000 Hz playback in search mode
- Mono Sampling

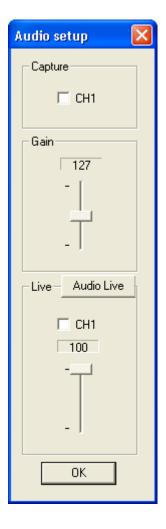
DATA SIZE (Per channel)

1 Second: 1625 bytes
1 Minute: 97,500 bytes
10 Minute: 975,000 bytes
1 Hour: 5,850,000 bytes

1 Day: 140,400,000 bytes (Approx 140MB)

Click the Audio Capture Channel Boxes to enable recording and adjust the Gain to the desired level.

Capture	Select each channel to enable audio recording.	
Gain	Adjust the gain for individual audio channels.	
Live	Select each channel to enable for live audio selection.	
Audio Live	Select a live audio channel to hear. Only enabled channels are available.	
Volume	Adjust the volume sliders for each live audio channel.	



Enabling Audio Recording

- 1. Click the Audio button on the General setup display.
- 2. Select an audio channel under Capture.
- 3. Click OK.

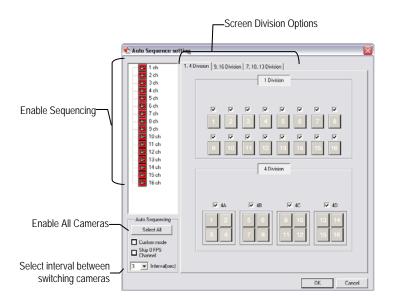
Enabling Live Audio

- 1. Click the Audio button on the General setup display.
- 2. Select an audio channel under Live.
- 3. Click OK.

TIP: Select the audio channel you want to listen to by clicking the Audio Live button and selecting it in Audio Setup. Live audio channels can also be selected from the Main Screen; only audio channels enabled under Live will be available.

Auto Sequencing Setting

Auto Sequencing is used either in the main screen when Auto Sequencing has been enabled or when a Spot-Monitor Out signal is used to display video on a spot monitor. Auto Sequencing conveniently displays video channels and at specified intervals, sequences through each selected channel.



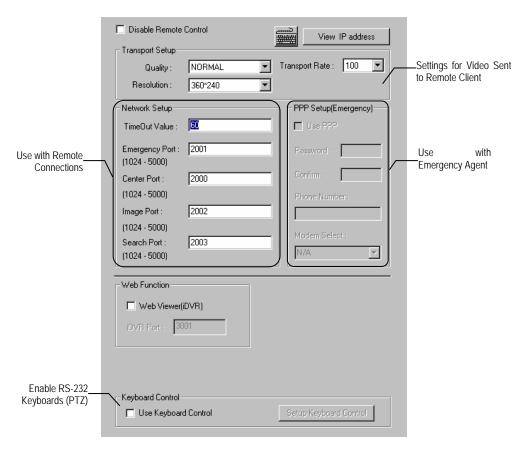
Channel SelectionClick each channel to include in Auto Sequencing.Custom ModeEnable to create non-standard screen divisionsSkip 0 FPS ChannelSequence skips cameras with no video signal.

Create Custom Auto Sequence

- 1. Open General Setup and click the Sequence Setting button.
- 2. Click individual cameras in the left pane or click the Select All button to include all cameras in the sequence.
- 3. Select an interval time (in seconds) to display each screen in the sequence.
- 4. Select Screen Division options for appropriate cameras.
- 5. Click the OK button.

NETWORK SETUP

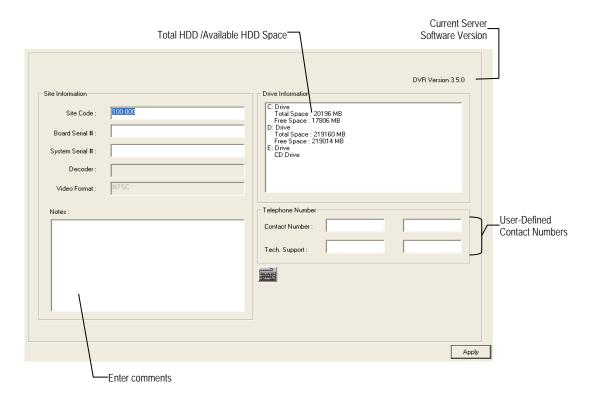
Network Setup allows the user to adjust settings such as ports, setup emergency PPP information for use with the Emergency Agent and enable Remote Access.



Transport Rate	A bandwidth throttle based on percentage of free network.	
Web Viewer (iDVR) Enables/Disables access to the IPR using the Web Viewer interface.		

INFORMATION

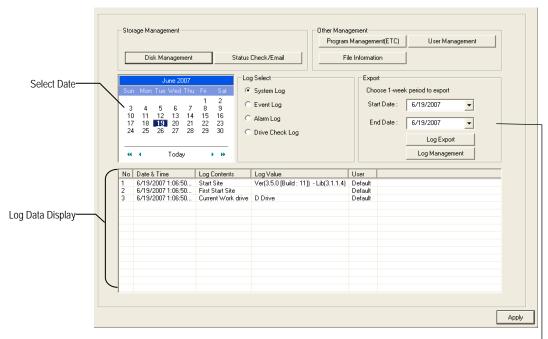
The Site Information Window allows users to define the site code necessary for connecting to remote software, save comments relative to the IPR and store tech support and contact number information.



A user-specified unique identification name that is used by other IPR software to connect to the IPR. (Remote, Emergency Agent, SCS, Digital Signature Verifier)

ADMINISTRATIVE SETUP

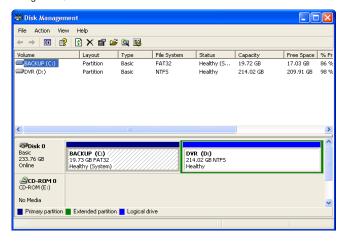
The Log Viewer displays detailed information about the IPR, including Shut Down and Restart information, User Logins and Recording problems and failures. This can be a valuable tool to Administrators.



Export Log Data (1 to 7 days)

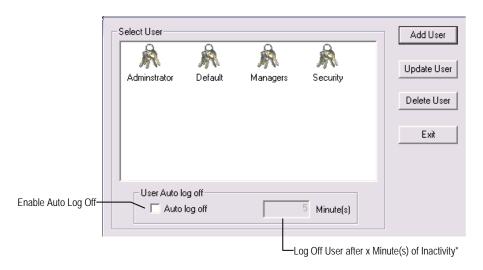
Disk Management

The Disk Management window is a native Windows function. This window displays the partition scheme and health status of the Hard Disk Drives in the IPR. This window is often used to troubleshoot an IPR, or verify the amount of Hard Drive storage installed. For more information about Disk Management, consult a Windows XP manual.



User Management

The User Management Console allows the administrator to create, edit, and delete user accounts. Each user account can be assigned different privileges to limit the usage of the IPR system. Users can be given administrator privileges by enabling all rights, however only the true administrator account can log into the User Management Console.



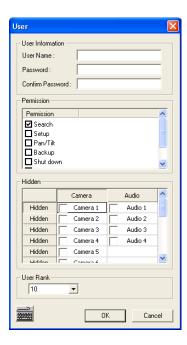
*Auto Log Off affects all users

CAUTION: The Delete User button immediately deletes the user.

CAUTION: Auto log off will log off the user after the specified time of inactivity – even during playback or backup operations.

Add a New User

- 1. Open the Administrative Setup display.
- 2. Click the User Management button.
- 3. Click Add User to open the User Management window.
- 4. Enter a user name and password.
- 5. Enable appropriate Permissions.
- 6. Select cameras and audio channels to hide from the user.
- Assign a User Rank.
- **8.** Click the OK button to save changes and close the window.



User Rank

The User Ranking structure allows the option to assign a privilege system (1-10 where one has the most rights) to users of the IPR Software. For example: Since only one user is allowed to use the PTZ controls at any one time, an administrator with a higher rank can kick another user out and take control of the PTZ.

The User Rank option affects:

SETUP ACCESS – Only one user can access Setup at any one time. A user with a higher rank will kick another user out and then open Setup.

PTZ CONTROL - The IPR Software can only have 1 user using the PTZ controls at any given time. A user with a higher rank will kick another user out and then open the PTZ controls.

- Enter Setup.
- 2. Click the Administrative button.
- 3. Click the User Management button.
- 4. Enter the Administrator password and click OK.
- 5. Select a user from the Select User box and click the Update User button.
- **6.** Set the user's rank using the User Rank list and press the OK button to save changes.

Changing the Administrator Password

- 1. Inside Administrative Setup, click the User Management button. When the prompt appears, click the Change Password button.
- 2. Enter the new password in the prompt that appears and click OK.

Default Administrator Password

The default administrator login is:

User: Administrator **Password**: <none>

Log Management

The Log Management window provides the user the options to overwrite log files or schedule log deletion.

Setup Log Management Options

- 1. From the Administrative Setup Display click the Log Management button
- 2. Select the box to enable the Log File Overwrite Option

Set Log Overwrite

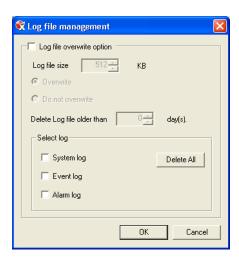
a. Select Overwrite and define the size of the log file cache

Set Log Cache Size

a. Select Do Not Overwrite and define the number of days to maintain log files.

Manually Delete Log Files

- a. Select the type(s) of log file to delete. System Log, Event Log, Alarm Log
- b. Click the Delete All button
- 3. Click the OK button to save the settings and close the window



Status Check / Email

General

- 1. Click the Setup button on the Main Display.
- 2. Click the Administrative button.
- 3. Click Status Check/Email.
- 4. Select the Enable Email Alarm check box.
- 5. Enter a From Name and e-mail Address.

NOTE: This name and address will appear in the From line of the email alert message.

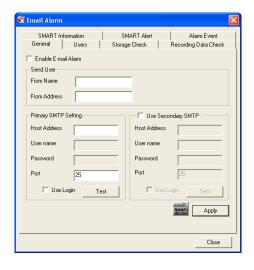
- Enter the SMTP information for the "from" email account. Contact the email administrator for this information if necessary.
- If using a secondary email account select the Use Secondary SMTP Box and complete the SMTP information.
- 8. Click the Test button to check settings.
- 9. Click Apply when finished.

Users

- 1. Setup the General tab.
- 2. Click the Users tab.
- 3. Select the type of event to send email on.
- 4. Enter the User Name and Email Address of an email recipient.
- Click the Add button.
- 6. Repeat for additional recipients and types of events.

NOTE: A separate email notification for each type of event must be set up for a single recipient to receive notifications for each type of event.

7. Click Apply when finished.





Storage Check

- 1. Setup the General and Users tabs first. (see above)
- 2. Select the Use Storage Check check box.
- 3. Define the number of minutes.
- 4. Select an Alert Option, Beep or Popup Message, if desired.
- 5. Click Apply.



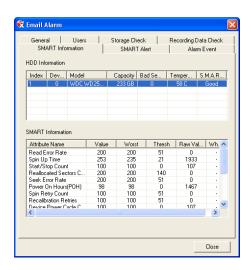
Recording Data Check

- 1. Setup the General and Users tabs first. (see above)
- 2. Select the Recording Data Check check box.
- 3. Define the number of hours between data checks.
- 4. Select the Action Method.
- 5. Click Apply.



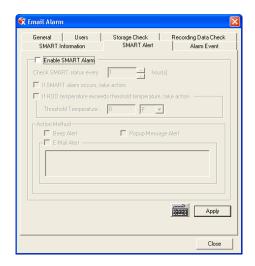
SMART Information

The SMART Information tab displays Hard Drive information.



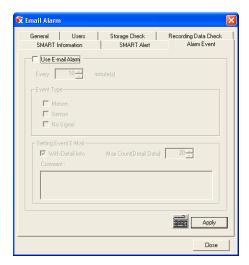
SMART Alert

- 1. Setup the General and Users tabs first. (see above)
- 2. Select the Enable SMART Alarm.
- 3. Define the number hours between SMART checks.
- 4. Select the type of SMART event to trigger an action.
- 5. Define the maximum HDD temperature.
- **6.** Select an action method.
- 7. Click Apply.



Alarm Event

- 1. Setup the General and Users tabs first. (see above)
- 2. Select the Use Email Alarm check box.
- 3. Define the number of minutes between recording data checks.
- 4. Select Motion and/or Sensor to send and alert on that type of event.
- 5. Click Apply.
- 6. Click Close to return to the Administration tab.



INSTANT RECORDING

The Instant Recording feature allows users to manually initiate recording on a specific camera, overriding the current schedule. When Instant Recording is activated the IPR flags the clip as an event so Instant Recording instances can be found using the Index Search

Instant Recording can be used, for example, when a suspicious object or person is detected and the user wants to flag that section of video for easy retrieval at a later date.

Activate Instant Recording

- From the Live View screen, double right-click the camera on which to enable instant recording. An INSTANT label will be placed on the upper right corner of the video.
- 2. To turn the Instant Recording option off, double right-click the video a second time.

Searching 'Instant Recorded' Video

Enter the Search Mode, click the Index Search button, and then select the Instant Recording Option. See the Search chapter for more information.

SEARCH

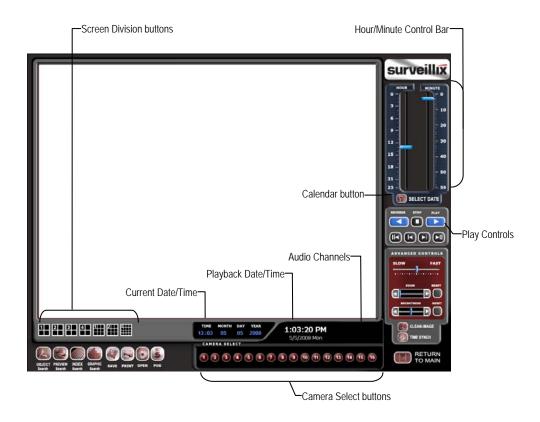
This chapter includes the following information:

- Search Overview
- Play Controls
- Index Search
- Preview Search
- Object Search
- Graphic Search

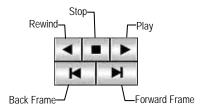
SEARCH OVERVIEW

The IPR unit has several options that allow the user to easily search through, and find, a particular section of video. From Motion/Sensor indexing to calendar views highlighting days with recorded video; the IPR unit is equipped to help the user quickly find a specific video or event.

The following chapter describes in detail how to use the IPR Search features.



Play Controls



Back Frame	Moves video back one frame.
Rewind	Rewinds video.
Stop	Stops video playback
Play	Plays video.
Forward Frame	Moves video forward one frame.

Adjust the Brightness of an Image

- 1. Select an image to adjust by double-clicking on the desired image. Multiple images cannot be adjusted at one time.
- 2. Move the Bright slide bar to the right or left to adjust the brightness.
- 3. Reset the Brightness by moving the slider back to the center of the bar.

Zooming In On an Image

- Select an image to adjust by double-clicking on the desired image. Multiple images cannot be adjusted at one time.
- 2. Move the Zoom slide bar to the right or left to zoom in or out of an image.
- 3. Reset the Zoom by moving the slider back to its original position on the bar.

Zooming in on a Portion of an Image

- 1. Using the mouse pointer, point to the area of interest on the image and click the right mouse button.
- 2. Keep clicking the right mouse button to zoom in further.
- 3. Continue clicking the right mouse button and the image zoom will cycle back to the original size.

Open Video from Saved Location

- 1. Previously saved video clips or backup files can be searched for content. Find file by date and time or by name.
- 2. Click the Open Button to search for the saved file.
- 3. Select a file from the list of saved clips and backup files or search by start hour.
- 4. Click OK to open the saved file.

Time Sync

The Time Sync option synchronizes a single channel of video to playback in real time. Ordinarily the video may playback slower or faster depending on several factors, including how many PPS recorded and number of cameras playing at the same time.

- 1. Select a single image to synchronize by double-clicking on an image.
- 2. Click the Time Sync Button. The video will now playback in real time.

Clean Image

The IPR unit is capable of recording video using one of three different resolutions. When using the 720 x 480 resolution, two fields are mixed. Because of the timing gap between the two fields, according to the standardized image rules, after image might occur to high speed moving images. The Surveillix IPR unit allows the user to remove this by clicking the Clean Image Button.

DAYLIGHT SAVING TIME

The IPR automatically adjusts for Daylight Saving Time changes. When the hour "jumps forward" no video is lost because an hour is skipped. However when the hour "falls back" there is a duplicated hour that under normal circumstances would be recorded over. The Surveillix IPR actually records both hours and allows the user to select which hour to play if the need arises.

To access the 'lost hour':

- 1. From the Search screen, click the Calendar button.
- Select the date when Daylight Saving time 'lost' an hour. The Daylight Saving option appears.
- 3. To play back the 'lost hour', select the Daylight Savings option.
- Click OK to confirm the date and begin playing the video using standard search features.



SAVE TO JPG OR AVI

The IPR can export single images in the Image file formats and save video clips in an .AVI format. Both .JPG and .AVI file formats are the most commonly used graphical formats today. Virtually every computer offers some type of support for these file formats which make them the most ideal formats to use.

- JPG Optimized for compressing full-color or grayscale photographic images, .JPG images are 24-bit (16.7 million color) graphics. Use .JPG to export a single image or frame.
- AVI .AVI image data can be stored uncompressed, but it is typically compressed using a Windows-supplied or third party compression and decompression module called a codec. .AVI is used to export a video clip.
- 1. From the Search screen, click the Save button.
- 2. Select the Export Type: Image File (JPG) or AVI File

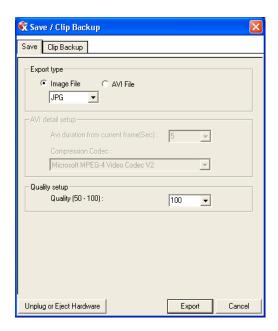
NOTE: Different image format types provide different file-sizes, quality and compatibility

Image File

 Select Quality - 50>100. When size is not an issue, set the quality to 100.

AVI File

- Enter the duration (seconds) to record. Although 100 is the longest time displayed, a longer recording may be entered manually.
- Select a Compression Codec. Each codec provides different levels of quality, compatibility and file-size.
- Select Quality 50>100. When size is not an issue, set quality to 100.
- Click the Export button to save file. The Cancel button exits the window without exporting file.

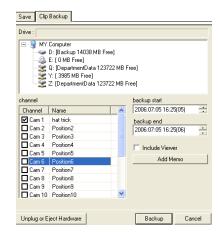


SINGLE CLIP BACKUP

Along with the Save option, a single camera backup option is also included with the Surveillix software. The single Camera or Clip Backup allows the user to backup a single camera without having to backup multiple cameras at a given time. The Clip Backup option gives the users the ability to choose a backup time frame, choose a specific camera, add memos, and even make a copy of the Backup Viewer if needed.

- 1. From the Search screen, click the Save button.
- Select the drive from the file tree to save data to. (Hard disk drive, removable drive, CD/DVD drive)
- 3. Select one camera from the list of
- 4. Define the Start and End time of the backup clip
- Select the Include Viewer to include a copy of the proprietary Backup Viewer Software to view the clip on virtually any windows machine
- 6. Click the Add Memo button to include additional information
- 7. Click the Backup button to start backup

NOTE: If backing up to a removable USB device click the Unplug or Eject Hardware button after backup is complete to safely remove the device.



PRINTING AN IMAGE

1. Using the Search screen to locate the desired frame. Double-click the image.

NOTE: Only one camera can be selected at a time for this function to work.

- 2. Click the Print button. A Print Options window appears. Depending on the printer being used, there may be several printing options available. Refer to the printer manual for more information.
- 3. Click the Print button to print the selected images.

NOTE: The message "NO DEFAULT PRINTERS INSTALLED" will display if no printer is installed.

PERFORMING A BASIC SEARCH

There are several different types of searches that can be performed on the IPR. The most basic involves selecting the date, the time, the camera, and clicking play.

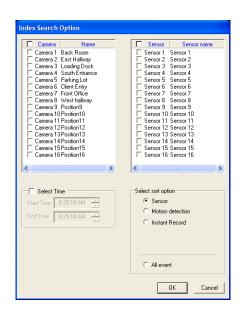
- 1. Click the Calendar button to select a date.
- 2. Select a time by adjusting the hour and minute slide bars.
- 3. Select one or more cameras.
- 4. Click Play. Video can be played forwards, backwards, or frame-by-frame.

INDEX SEARCH

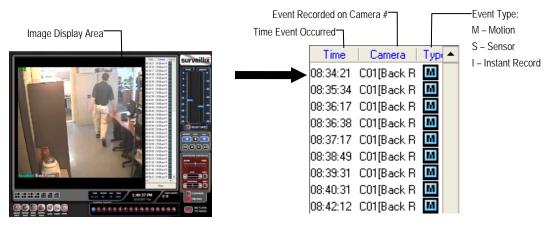
Using the Index Search can greatly decrease the amount of time spent searching through saved video. The Index Search allows a user to perform a search based on criterion such as Sensor, Motion and Instant Record events

Performing an Index Search

- 1. Click the Calendar button on the Search Screen to select the date to search.
- 2. Click the Index Search button.
- 3. Select the cameras and sensors to include in the search
- 4. Select the Select Time check box to define a specific period.
- Select an event type to search (sensor, motion, instant record) or select the All Event option.
- Click OK. There may be a delay while results are returned. Results will be displayed in a column on the left side of the screen – Each line represents a segment of video. If no results are found, "NO IMAGE FOUND" will appear in the column.
- Once the results are displayed, double-click any one to play the associated video.
- Once the desired image is found, apply it to the Main Search by selecting the Close button at the bottom of the results column.



Index Search Results Display



PREVIEW SEARCH

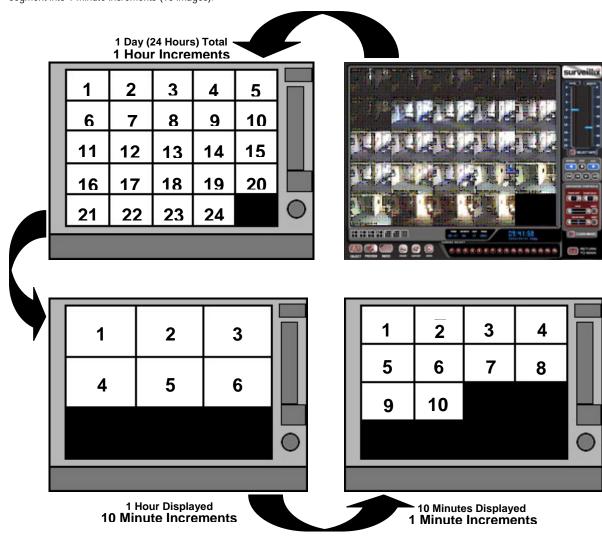
Preview Search can be used in a number of circumstances to quickly find an exact moment where an event, such as a theft, occurred. The Preview Search gives a 24 Hour visual overview of a single camera by separating a 24 hour period (1 day) into 24 images, one image for each hour of the day. The search can then be further narrowed down into ten minute increments and one minute increments by selecting one of the images displayed.

These example images show how the Preview Search functions.

The first screen that appears has 24 images displayed. Each image represents the first second of each hour. If there is no image recorded during that period then nothing will be displayed.

When an hour is selected (by double clicking on the image), a new screen appears with 6 images. Each of these images represents a 10 minute segment of video within the selected hour.

Once a 10 minute segment is selected (by double-clicking on the image) the final screen appears which breaks down that 10 minute segment into 1 minute increments (10 images).

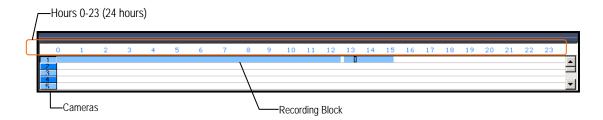


Performing a Preview Search

- 1. Select a single camera by either turning off all cameras but one or double-clicking a displayed image.
- 2. Select the Preview Search button. 24 images display. If there is no recorded video during a portion of the day, "No Image" will be displayed where the image should be.
- 3. Refine the search by double-clicking on an image to select it. 6 images display. If needed, return to the previous 24-image view by right-clicking on an image.
- 4. Refine the search by double-clicking on an image to select it. 10 images display. If needed, return to the previous 6-image view by right-clicking on an image.
- 5. Double-click an image to select the 1-minute segment of video to play. A single image displays. If needed, return to the previous 10-image view by right-clicking on an image.
- **6.** Use the Play controls to play the video of the selected segment.
- 7. To exit out of the Preview search with the current image still selected, deselect the Preview Search button.

GRAPHIC SEARCH

The Graphic Search option displays video in graph format.

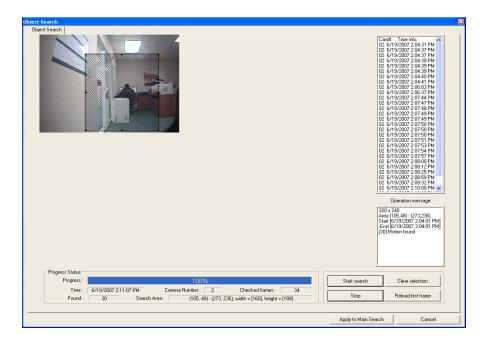


Performing a Graphic Search

- 1. Select the Graphic Search button on Search Screen Display
- 2. Click the calendar icon to select a day
- 3. Click an area of the blue recording block. Only one camera can be displayed at a time.
- 4. Recorded video from the corresponding camera and time block will display above
- 5. Use the mouse or arrow buttons to move through recording blocks and view video

OBJECT SEARCH

Object Search is a powerful search utility used to search a region on the video for any motion changes. Results are neatly displayed and can be viewed quickly.

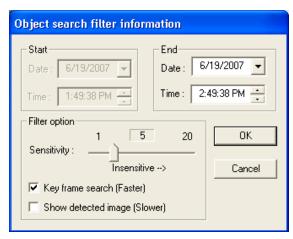


Performing an Object Search

- Perform a Basic Search to determine the start time of the object search.
- 2. Select a single camera, either by turning off all cameras but one or by double-clicking a displayed image.
- 3. Click the Object Search button on the Search Screen Display
- Click and drag the mouse on the video display to define a motion region box. Resize by pulling on the small square boxes 4. located on the perimeter of the box.
- Click the Start Search button, the Object Search Filter window will open
- 6. Select an end date/time. One hour is the default setting.
- 7. Adjust the sensitivity if necessary.

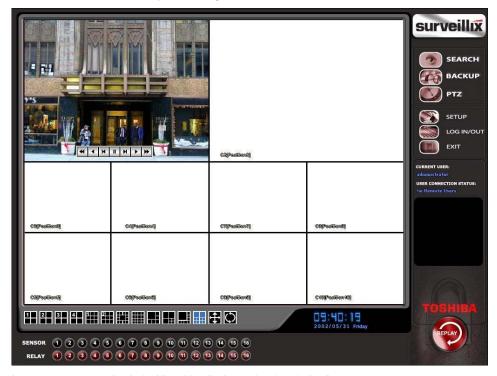
NOTE: If you select Key frame search the IPR only search key frames for motion in the selected area, and if you select Show detected image, the IPR will show each frame as it is searched; this will slow the search process significantly.

- 8. Click the OK button
- Select a motion event from the search results list displayed on the right
- 10. Click the Apply to Main Search button to display the selected image in the main Search Screen and to use play
- controls 11. To start a new object search using the original image click the Reload First Frame button
- 12. To exit Object Search without selecting an image, click the Cancel button



SEARCH IN LIVE

The Search in Live feature allows users to review events immediately while monitoring live video. Pause, rewind, and resume live video within seconds of an alarm event or suspicious activity.



- 1. Move the mouse cursor over the desired live video display on the Live Display Screen.
- 2. Press the Scroll button on the mouse.
- 3. The Search in Live Controls will display at the bottom of the image.
- Use the controls to pause, rewind, move frame-by-frame or resume playing as desired.



AUDIO PLAYBACK

Audio is played back at 48,000Hz. To play audio with the video:

- 1. Select a single camera by turning off all cameras but one using the Camera Select buttons. The audio buttons will be displayed.
- 2. Select a single audio channel to play. When an audio channel is selected, the Time Sync button will be automatically selected.
- 3. Click Play.

PAN / TILT / ZOOM

This chapter includes the following information:

- Overview
- Setting up the PTZ
- Creating and Viewing a Preset Position
- Creating and Viewing a Preset Pattern

PAN / TILT / ZOOM OVERVIEW

The PTZ controls within the IPR allow for powerful control over the cameras. This can be extremely beneficial by increasing the usefulness of the recorded video. Using the PTZ controls you can create custom preset configurations that can continuously sweep across large areas.

SETTING UP A PTZ CAMERA

Setting up a PTZ Camera is simple. The IPR comes preassembled with an internal PTZ adapter. The cabling may be run up to 2,000 ft using 22 Gauge Twisted Pair.

It is important to understand how the PTZ connects to the IPR. The IPR outputs an RS-232 signal and converts in to an RS-422/485 signal which is then sent to the PTZ camera.

Attaching the PTZ Adapter

Refer to the Connections section of this manual for information on connecting the PTZ camera to the IPR

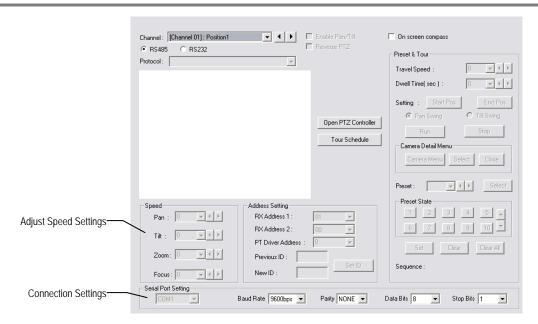
Enable the PTZ Settings

- 1. Inside the IPR PTZ Setup, select the PTZ camera using the Camera Channel list.
- 2. Enable the PTZ functions of the camera by placing a check in the Enable Pan/Tilt check box.
- Select the appropriate Protocol and set the PTZ Driver Address and Serial Port Settings (See Advanced PTZ Setup in the chapter).

NOTE: The majority of major PTZ manufacture protocols are included in this software. Refer to the Supported PTZ Protocols list in this manual.

- Click Apply and Exit Setup.
- 5. From the Main Display Screen select the PTZ button (See the chapter on IPR Basics) The PTZ Controller will open.
- Select the PTZ camera to control by clicking on its video on the main display screen. The camera number will appear inside the PTZ controls.
- 7. Using the PTZ controls, move the PTZ around.

ADVANCED PTZ SETUP



NOTE: Preset and Tour options may vary depending on the camera

Creating and Viewing Preset Positions

A Preset Position is a user-defined location where the camera can be pointed, zoomed in, and focused. Preset positions can be defined and labeled if the camera supports this.

Creating a Preset

- 1. Inside Setup, select the PTZ setup option and select the camera wish to edit.
- 2. If the camera is already selected click the Open PTZ Controller button
- 3. Move the selected camera to the desired position using the Pan/Tilt/Zoom/Focus controls.
- In the Preset & Tour Detail section choose a Preset # (1-10) using the list or the Right and Left Arrow buttons and click Select.



NOTE: Preset positions can also be created using the advanced buttons on the PTZ graphical controller.

Viewing a Preset

- 1. From the Main Display Screen select the PTZ camera by clicking on it.
- 2. Using the keyboard click the number keys corresponding with the Preset Positions. The Camera will move to the saved Preset.

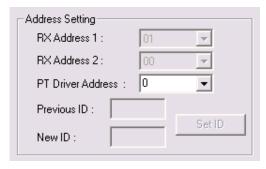
PTZ Address Settings

Some protocols support software address settings.

The **RX Addresses** and **ID settings** are compatible with a particular line of receivers that support 2 ID addresses

The PT Driver Address is associated with the PTZ ID address set on the camera. The addresses must match for the IPR to communicate with the proper PTZ camera. This is especially important when a large number of PTZ cameras are connected to the IPR.

NOTE: To select a PT Driver Address of 129-254, manually enter the ID in the box.



ACCESSING PTZ MENUS

Some protocols support the ability to access the Internal PTZ Onscreen Menu

Since every PTZ camera is different, the functions of these options can vary slightly.

The Surveillix IPR provides an easy way to access the cameras options. For explanations of what those options are please refer to the manual that came with the camera

NOTE: Use the arrow buttons on the PTZ controller move through the PTZ Menu options and/or highlight options.



CONTROLLING A PTZ CAMERA

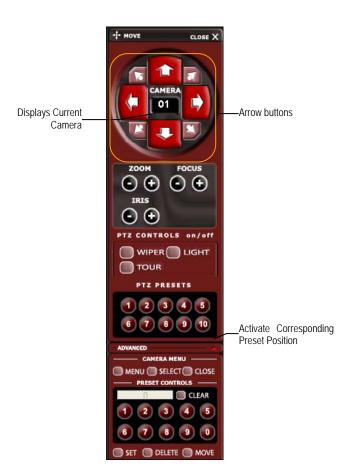
The Surveillix IPRs provide control for a PAN/TILT camera in two different ways.

- The first method is to use the Graphical PTZ Controller that appears when the PTZ button is clicked on the main screen.
- The second method is to use the mouse to control the camera directly from the live video display.

Using the Graphical PTZ Controller

- Use the Arrow buttons to control the direction of the PTZ camera
- To select a new camera, click the video display of a different camera on the Main Screen Display.

NOTE: Eight directions are available only for select protocols. Only four of the PTZ Control buttons work for all protocols (UP, DOWN, LEFT, RIGHT).

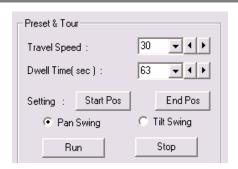


Using the On-Screen Compass

- 1. Click the Setup button on the main screen.
- 2. Click PTZ Setup.
- Select the On Screen Compass check box to enable the feature.
- Click Apply.
- 5. Click the Exit button to return to the main screen.
- 6. Click the PTZ button.
- Control the PTZ by dragging the mouse on the screen in the desired direction. A green line will appear to show the direction the PTZ will move. The shorter the line the less the PTZ will move. The longer the line the more the PTZ will travel in the specified direction.

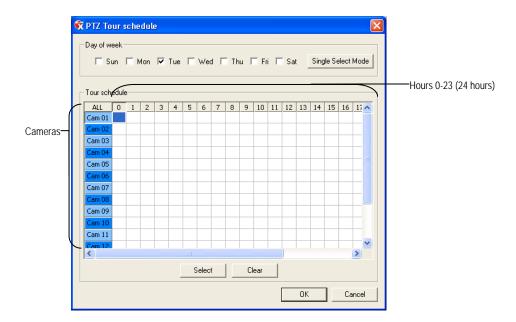


UNDERSTANDING TOURS



Travel Speed	The speed between one Preset position to the next
Dwell Time	The length of time (in seconds) that a PTZ Tour displays a Preset Position.
Setting: Start Pos / End Pos	Define a Mimic Tour. The Start Position button begins the 'recording' process. The Stop Position button ends it.
Pan Swing / Tilt Swing	This option enables the Horizontal (Pan) or Vertical (Tilt) 'Guard Tours'.
Run / Stop	Runs the selected Pan or Tilt Tour.

PTZ Tour Schedule



Create PTZ Tour Schedule

- 1. Click the Setup button on the Main Screen.
- 2. Click the PTZ Setup button.
- 3. Click the Tour Schedule button to open the PTZ Tour Schedule window.
- 4. In Single Select Mode select one day of the week to create a schedule for or toggle to Multi Select Mode to select multiple days with the same schedule.
- 5. Click and drag the mouse cursor to select blocks of time (hours 0-24) and corresponding cameras.
- 6. Click the Select button.
- 7. When finished click the OK button to save changes and close the window.

SUPPORTED PROTOCOLS

Protocols are added frequently. The Surveillix Server software may support new protocols that are not listed here.

WSD-7425

TELEEYE DOME

The current supported protocols are:

COVI EVQ-1000

HONEYWELL (HSD-251)

ADEMCO RAPID DOME LG (LVC-M300/310) AMERICAN DYNAMICS LG MULTIX **BOSCH AUTODOME** LG SPEED DOME CBC (GANZ) MERCER MERIT LI-LIN C-BEL CELBO SPEED DOME MERIT LI-LIN V6 CHIPER CPT (V9KR SERIES) MIC1-300 CNB-AN102 MOLYNX CNB-PTZ100 **NICECAM COMPUTAR** NIKO

DENNARD RS485 ORX-1000 (KRE-303)
DMP23-H2 PANASONIC
DONG YANG DSC-230/240 PANASONIC V2

DONG YANG SPEEDDOME PELCO (P PROTOCOL 4800BPS)

DONG YANG UNITECH (DRX-502A) PELCO DRD08/DRD14 SERIES

DONGYANG (255RXC) PHILIPS (TC8560 & TC700)

DVRX-1000 SA

DYNACOLOR SAMSUNG (DRX-502A)

ERAESEEDS (CRX-1401) SAMSUNG (MRX-1000)

ERNITEC SAMSUNG (SCC-641)

EVERFOCUS EPTZ1000 SAMSUNG (SCC-C6407)

EVERFOCUS EPTZ1000 SAMSUNG (SCC-C6407)
FASTRAX II SAMSUNG (SPD-3300P)
FASTRAX IIE SANTACHI

FILLTECH (DSC-230/PT-201) SENSORMATIC SPEEDDOME-AD DELTADOME

FINE SYSTEM (CRR-1600) SONY BRC-300 FOCVISION (KD1602) SPD-2500P

 GANZ ZC - PT SERIES
 SUNGJIN (SJ2819RX)

 HMC-250
 SUNGJIN (SJ3000RX)

 HSCP
 T TIAT TRX-100

 HONEYWELL (GC-655P)
 T TIAT TTR-100

 HONEYWELL (HSD-250)
 TAMRON

HONEYWELL (KDEC-300) TOSHIBA (P PROTOCOL 4800BPS)

HONEYWELL HD6 ULTRAK (KD6)

INTER-M (VSD-640) VCL
INTER-M(VRX-2101) VCL- LEGACY

INTER-M(VRX-2101) VCL- LEGACY
JAVELIN (ORBITOR) VICON

JVC TK-C676/C55 VICON SURVEYOR 2000

KALATEL (CYBER DOME)VIDEOALARMKDCVIDEOTRECKODITECVISION TECHLG (LPT-A100L)WONWOOLG (LVC-A70X'S)WSD-7425D

BACKING UP VIDEO DATA

This chapter includes the following information:

- Overview
- Saving Video to a DVD-R
- Saving Video from a single camera
- Scheduling Regular Video Backup

BACKUP OVERVIEW

The IPR can easily backup important video data to an internal or external media location. The most commonly used forms of this are CD-R/RWs, External USB or FireWire Hard Drives, and Network Drives. Every IPR comes standard equipped with a DVD±RW drive, USB port, and Network Adapter.

The IPR is capable of performing a backup to multiple DVDs when the file sizes exceed the capacity of a single disk. You may also specify multiple locations for backup as well as the order they are recorded to.

The IPR backs up video data using a proprietary compression format that can only be read by the IPR Backup Viewer Software. This ensures the integrity of the data.

Throughout the backup process the IPR will continue recording without interruption. This is the result of the tremendous multiplexing power of the IPR which allows it to perform virtually all functions without disrupting the recording process.

NERO® EXPRESS

The IPR uses Windows® XP® Embedded running Nero Express 7 to write data to the DVD±RW Drive. This solution allows the IPR software to read and write data to the DVD-ROM Drive without the requirement of formatting the disk first.



CAUTION: Although many features are available within Nero, it is highly recommended that you do NOT use any features other than those necessary for the standard backup of video data as outlined in this section, loss of information or software instability may result.

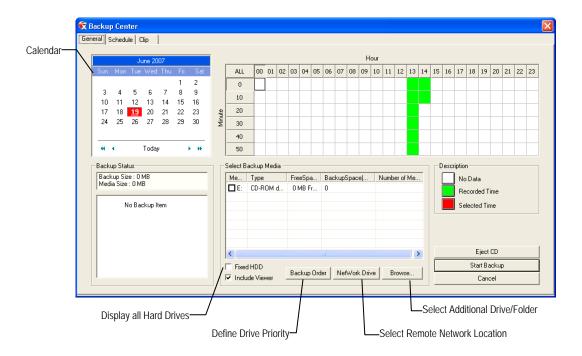
BACKUP CENTER OVERVIEW

The Backup Center allows you to back up recorded video data from multiple dates and times to one or more locations including the DVD-ROM drive, Network Storage Locations, and External Hard Drives.

NOTE: USB performance is reduced during backup to preserve resources for recording.

General Backup Screen

The General Backup window is used for performing bulk backup of video recorded by all cameras for a selected period or periods to a specified storage location.



Hour / Minutes Recording data displays in hourly (24 horizontal columns) and 10 minute (6 vertical cells) segments.

Green cells indicate time with recorded video. Red cells indicate time selected for backup.

Backup Status Displays the size of all video currently selected for backup, the available size of the media currently

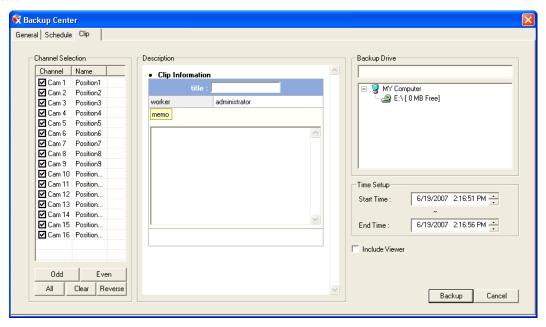
selected for backup to, and the dates and times of video currently selected for backup.

Performing a General Backup

- 1. Click the Backup button on the Main Display Screen.
- 2. Select the date or dates to back up video from using the calendar. Dates highlighted in blue contain recorded data.
- 3. Select the blocks of time to back up using the Hour/Minute Menu. Blocks of time with recorded video are highlighted in green. Blocks of time selected for backup are highlighted in red.
- 4. Select the drive or drives to save the backup video to using the Select Backup Media Menu, Network Drive button, or Browse button. When selecting the DVD±RW Drive you must specify the number of CD/DVDs to use for backup.
- 5. Set the backup order using the Backup Order button.
- 6. Select the Include Viewer check box to include the Backup Viewer Application.
- Click the Start Backup button to begin the backup process. A progress bar will be displayed in the lower right corner of the main screen.

Clip Backup Screen

The Clip Screen is used for backing up video recorded by individual cameras for a selected period of time to a specified storage location

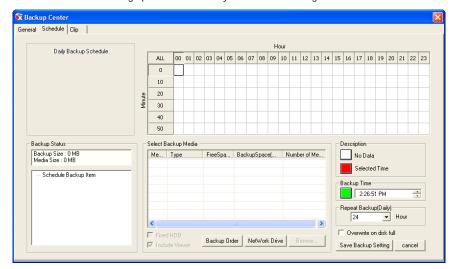


Performing a Clip Backup

- 1. Click the Backup button on the Main Display Screen.
- 2. Click the Clip Backup Tab at the top of the Backup Center Screen.
- 3. Set the Backup Time and End Time of the video to backup in the Time Setup Box.
- 4. Select the Cameras to back up in the Channel Selection Box.
- 5. Select the Backup Drive to save the backup video to.
- **6.** Check the Include Viewer check box to include the Backup Viewer Application.
- 7. Enter pertinent clip information into the Clip Information section in the Description Box.
- 8. Click the Start Backup button to begin the backup process. A progress bar will be displayed in the lower right corner of the main screen.

Scheduled Backup Screen

The Scheduled Screen is used for backing up video recorded by all cameras at a regular interval.



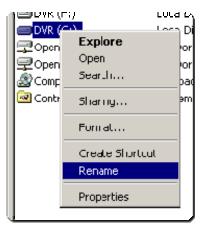
Performing a Scheduled Backup

- 1. Click the Backup button on the Main Display Screen.
- 2. Click the Schedule Tab at the top of the Backup Center Screen.
- 3. Set the Backup Time to perform the backup.
- 4. Set the Repeat Backup Time to specify the number of hours between backup procedures (between 1 and 24 hours).
- 5. Select the Backup Drive to save the backup video to using the Select Backup Media Menu or the Network Drive button. To save to a local drive or partition you must first rename the location "Backup"
- 6. Check the Overwrite on Disk Full checkbox to overwrite previous scheduled backups when the disk becomes full.
- 7. Click the Save Backup Setting button to save the current backup setting and return to the Main Display Screen.

Specifying Scheduled Backup Drives

In order to use the Scheduled Backup feature, one or more storage drives or partitions connected to the IPR must be labeled as a backup drive.

- Exit and restart in Windows mode.
- Double-click the My Computer icon on the IPRs desktop. A file menu will be displayed.
- Right-click the drive to specify as a backup drive for Scheduled Backup and select the Rename option. Rename the drive 'Backup'. Repeat this process for all drives to use for Scheduled Backup. To remove a drive from use for Scheduled Backup, change its name to something besides 'Backup'.
- Restart the application and return to the Schedule Tab in the Backup Center window.



LAN / ISDN / PSTN CONNECTIONS

This chapter includes the following information:

- Overview
- Configuring TCP/IP Settings
- Connecting to a LAN

LAN OVERVIEW

The IPR unit can easily be connected to a Local Area Network (LAN) and uses Microsoft's® powerful and secure Windows® XP Embedded operating system. This allows for easy and well-documented instructions on setting up LAN connections no matter what type of LAN you want to use.

A LAN is a group of computers and other devices dispersed over a relatively limited area and connected by a communications link that allows one device to interact with any other on the network.

Examples of LAN connections include Ethernet, Token Ring, cable modems, DSL, FDDI, IP over ATM, IrDA (Infrared), wireless, and ATM-emulated LANs. Emulated LANs are based on virtual adapter drivers such as the LAN Emulation Protocol.

There are many reasons why using Microsoft® Windows® XP Embedded is superior to other platforms when running on a LAN. The number one reason is security. Windows XP Embedded is based on NT technology, which, historically has boasted the most reliable and secure Operating System in the world. Running the IPR on a secure network is important to prevent unwanted users from gaining access to confidential information. Unwanted users can compromise the integrity of the confidential data being stored and viewed, and in extreme circumstances can cause irreparable damage to the network.

Since connecting the IPR unit to a network can be extremely complex (depending on the network), this Surveillix IPR manual will cover only the basics. It is suggested that the administrator consult a Vendor or IT Administrator before attempting to create or connect to a LAN.

CONNECTING TO A LAN USING TCP/IP

The networking options of the IPR unit can create and edit all Network settings available on Windows XP Embedded. The IPR unit comes equipped with a 100/1000 Gigabit NIC. This card uses a standard RJ-45 connector.

The IPR unit comes preconfigured to retrieve an IP Address from a DHCP Server. These settings will work for many users. If these IP settings are sufficient then re-configuring TCP/IP will not be necessary.

Configuring TCP/IP Settings

- Click the Exit Button and Select Restart in Windows Mode.
- Right-click on the My Network Places icon located on the desktop and select Properties. The Network Connections window opens.
- 3. Right-click Local Area Connections and select Properties. The Local Area Connection Properties window opens.
- 4. Select the Internet Protocol (TCP/IP) by clicking on it once. Once it is highlighted, select the Properties Button. The Internet Protocol (TCP/IP) Properties window opens.
- 5. Select Use the Following IP Address option. Enter the IP Address and Subnet mask appropriate for the network. It is recommended to contact the Network Administrator for appropriate IP settings.

Example: a. Common IP addresses are 10.0.0.25

b. Common Subnet masks are 255.255.255.0

NOTE: In order to connect to the IPR unit through a remote LAN connection, a static IP address must be assigned. If the network assigns the IP address automatically (DHCP), contact the Network Administrator for help assigning a static IP address.

- If the network requires you to specify the DNS information, enter it now by selecting the appropriate DNS options.
- When finished configuring the TCP/IP settings close the Internet Protocol (TCP/IP) Properties window by clicking the OK Button.
- 8. Close the Local Area Connection Properties window by clicking the OK Button.
- It may be required to restart Windows for the changes to take effect. Restart windows by selecting START on the desktop and selecting Restart.

WEB VIEWER

This chapter includes the following information:

- Overview
- Configuring the Web Viewer

WEB VIEWER OVERVIEW

The IPR allows you to access video using Microsoft® Internet Explorer® 7.

Highlights:

View Live Video from most computers

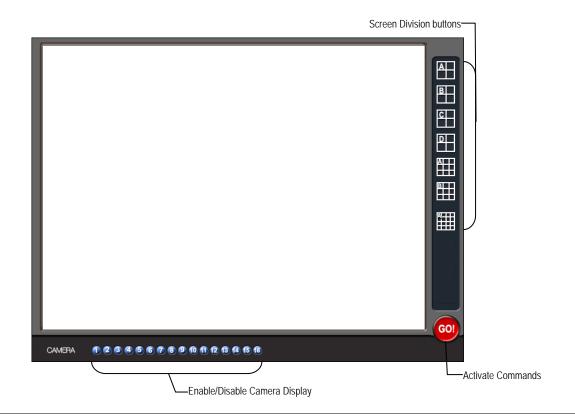
Username and Password protected

Easy to use graphical interface

Basics:

75 users can access the Web DVR simultaneously. The Web Viewer is an easy, secure way to view live video from virtually any computer with an internet connection using Microsoft Internet Explorer.

In order to log in to the IPR server, a user account must be made for the user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions. For example, a user can be granted access to only view cameras 4, 8 and 16.



Configuring the Server for Remote Connection

- 1. Enter Setup on the IPR.
- 2. Click the Network Setup button.
- 3. Clear the Disable Remote Control option. You should now be allowed to adjust port settings if necessary.

NOTE: If you are using a Firewall, it may be necessary to adjust the port settings on both the IPR and the Firewall. Contact the Network Administrator for more information.

- 4. Select the Web Viewer (iDVR) check box.
- 5. Click Apply.
- 6. Make sure a User account is created. Without a user account, the Administrator account must be used.
- 7. The IPR server is now ready to receive incoming connections.

Connecting to an IPR Using Web Viewer

- 1. Open Microsoft Internet Explorer.
- Enter the IP address of the IPR into the Address Bar.
- 3. When attempting this for the first time on a Computer a window will open and you will be asked to accept an Active X installation. Select Yes to this.

NOTE: If you receive a message saying Internet Explorer® security settings do not allow you to download Active X components then you will need to adjust the browser security settings. One way to do this is to add the IP address of the IPR to the trusted sites list inside Internet Explorer® settings. Contact the System administrator for additional help with adjusting Internet Explorer® settings.

- 4. When the Web Viewer finishes loading, select one or more cameras (or select a screen division button).
- 5. Click GO
- **6.** A login window will appear. Enter the Username and Password of an authorized user.
- The cameras will display.

Closing the Web Viewer

To exit the Web Viewer close Internet Explorer.

NOTES:

INCLUDED SOFTWARE SETUP

This chapter includes the following information:

- Emergency Agent Overview
- Remote Software Overview
- Digital Verifier
- Backup Viewer
- SCS Multi Site Software Overview

EMERGENCY AGENT OVERVIEW

The Emergency Agent software is a utility that streams video across a Local Area Network to a Client PC when an alarm is detected on the IPR. The video that streams across can be stopped, played forwards and backwards, in slow motion or real speed.

The utility is loaded at startup and placed in the taskbar. It constantly monitors for a signal from the IPR. When an alarm signal is detected the Emergency Agent Image Viewer window opens and starts playing the video from the camera associated to the alarm.

CAUTION: SCS and Emergency Agent are not compatible to run on the same PC. If you have SCS installed you do not need Emergency Agent. SCS will perform the same alarm notification as Emergency Agent.

Configuring the IPR

To enable the Emergency Agent on the IPR follow these steps:

- 1. Enter Setup and confirm you are in the Camera Setup Menu.
- Select a camera and then associate sensor(s) to that camera using the Sensor Connection Boxes.
- 3. Click the Network Setup button and make sure that Disable Remote Control is not checked.

NOTE: The Emergency Agent uses one port to transfer the data through (the Emergency Port). The port can be adjusted inside the Network Setting Menu if necessary. It is recommended that the default setting should be used unless the port must be changed.

- Click the Schedule Setup button.
- 5. Select the Sensor option to open the sensor schedule window.
- Enter the IP Address of the computer running the Emergency agent software.
- Click the box next to the IP Address to enable it.
- Create a schedule for the appropriate sensor.
- Highlight the sensor schedule blocks and click the [E] Emergency Agent button.

NOTE: The IPR will not send alarm events to the Client PC if the sensor schedule does not have the Emergency Agent Alarm Option enabled.

10. Click Apply.

Emergency IP: IP Use IP IP IP 0.0.0.00

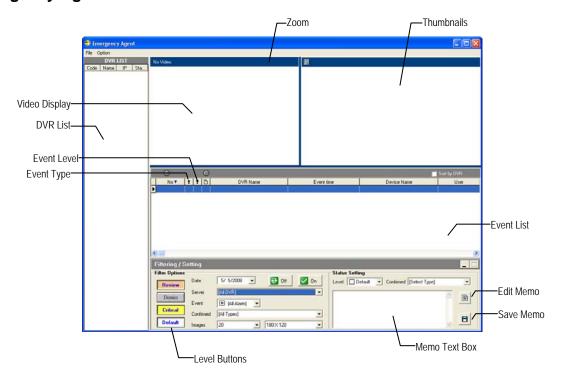
Configuring the Client PC

All configurations takes place in the Emergency Agent window on the Client PC. For descriptions and locations of the buttons and features of the Emergency Agent window refer to the Emergency Agent window section later in this chapter.

- 1. Open the Emergency Agent window on the Client PC Start >All Programs > Surveillix > Emergency Agent > Emergency Agent
- Right-click in the DVR List and select New. Enter the DVR Code, DVR Name, and IP Address of the IPR to connect to in the Site Edit window that opens. Click OK
- 3. From the Options menu, click Setup.
- 4. Confirm that the Network Port in the Setup window is set to the same number as the Emergency Port in Network Settings on the IPR. If the numbers are different adjust the Network Port on the client PC to match the IPR.
- 5. Click OK.
- 6. Restart the Client PC.



Emergency Agent Window



Setup Window

Network Port Indicates the port which the Emergency

Agent uses to listen for incoming events. This number should be changed to the same number as is set in the Emergency Port in

Network Settings on the IPR.

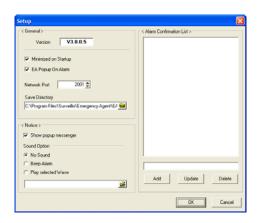
Save Directory Sets the location that recorded video footage

is saved to.

Notice Options Configuration settings for activating an

audible indicator or popup window when the

Emergency Agent receives an event.



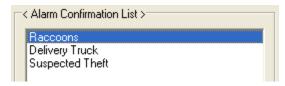
Alarm Confirmation List

Filter Event List

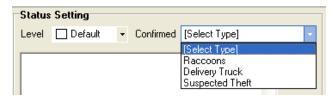
- 1. Select a DVR from the DVR List in the Filter Options section.
- 2. Select the Date to include.
- 3. Select the type of Event(s) to include.
- 4. Select the event levels (Review, Dismiss, Critical, Default).
- Click the On button to display filtered event listings.

Add Items to Alarm Confirm List

- 1. From the Option menu, click Setup.
- 2. Type the desired text in the box below the Alarm Confirmation List.

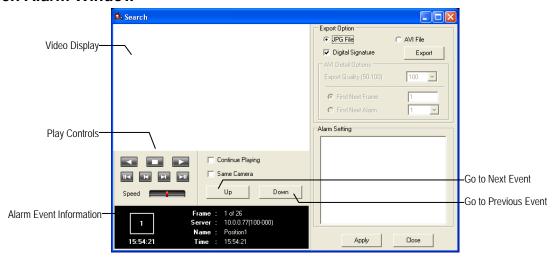


NOTE: The items in the Alarm Confirmation List will be available on a list under Status Setting in main Emergency Agent screen.



- 3. Click Add.
- 4. Click OK to save changes and close the window.

Search Alarm Window



Export Quality It may be necessary to reduce the overall size of an .AVI file; for example, to email to someone.

.AVI file sizes can be reduced by reducing the image quality. However, reducing the image quality causes the .AVI video to appear more pixilated. When size is not an issue, setting quality to 100 is

highly recommended.

Digital Signature Adds a digital signature to the exported .JPG image for use with the Digital Signature Verifier to

verify integrity of exported images and prevent tampering.

View Recorded Video

- 1. Double-click an event listing to open the Search Alarm window.
- 2. Use the play controls to locate the desired video.
- 3. Select the Continue Playing Box to watch all recorded events. When not selected, playback stops at the end of the alarm event.
- 4. Select the Same Camera Box to watch all events recorded by a single camera.
- 5. Click the Apply button after making any changes.

Export Video

- 1. Double-click an event listing to open the Search Alarm window.
- 2. Use the play controls to locate the desired video.
- 3. Click the Rewind button to return to the beginning or desired spot in the video.
- 4. Click the Stop button.
- 5. Select the Export Type JPG or AVI.

Save JPG:

- a. Select the Digital Signature Box to embed a digital signature in a JPG file.
- b. Click the Export button.

Save AVI

- a. Reduce Export Quality only if necessary to reduce the size of the file.
- b. Click the Export button.

REMOTE SOFTWARE OVERVIEW

The IPR was specifically designed to be fully operated and maintained remotely. It connects using the standard TCP/IP protocol thorough connection types such as DSL, Cable Mode, T1, ISDN, 56K Modem, LAN, and more. The Surveillix Remote software allows you to view live video, search through archived video, export images and video clips and have virtually full Setup control.

Highlights:

Search archived video

View live video

Export images and video clips

Control relay outputs

Setup administration

Basics:

The IPR can have up to 5 simultaneous remote connections. Each user can perform functions on the IPR and will not affect the other users. The only exceptions to this are accessing Setup and controlling a PTZ camera. Only one user is allowed to access setup or control a PTZ camera at any given time. The pictures per second passed to the Remote Client vary greatly depending on the connection type and speed.

In order to log in to the IPR server, a user account must be made for the user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions. For example, a user can be denied Searching and Setup privileges and only granted access to view cameras 4, 8 and 16.



It is highly recommended that users not be granted Setup privileges since this can pose a security risk Only properly authorized Administrators should have access to Setup.

The Remote software operates virtually the same way as the IPR itself. The appearance of it matches the IPR almost identically; however, there are a few minor differences. Some search features are not available (such as the Index and Object Searches) as well as some Setup options.

Remote Client Minimum Requirements

Intel® Pentium® IV 1.4 Ghz or equivalent

512MB System Memory

DirectX 9 or higher

32 MB Video Card

Internet or LAN Connection (56K, DSL, Cable Modem, T1, ISDN, etc.)

TCP/IP installed

Microsoft® Windows® 2000 or XP Operating System

1024 x 768 display resolution

16 Bit color depth or better

Remote Client Recommended Requirements

Intel® Pentium® IV 2.4+ or equivalent

512MB System Memory

DirectX 9 or higher

Compatible video card (ATI Preferable)

Internet or LAN Connection (DSL, Cable Modem, T1, ISDN, etc.)

TCP/IP installed

Microsoft® Windows® 2000 or XP Operating System

1024 x 768 display resolution

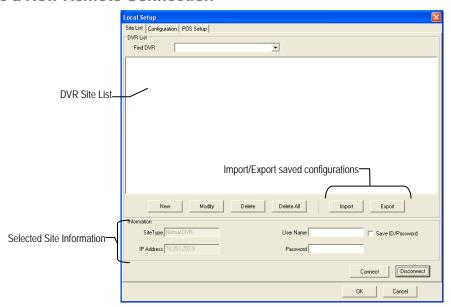
32 Bit color depth or better

Remote Software Setup

Installing Remote Software

- 1. On the client computer, insert the Surveillix Software CD into the CD-ROM. The CD should play automatically.
- 2. When prompted, select the Install Remote Software option. Follow the installation instructions carefully.
- 3. When the software finishes installing, close any open installation windows.

Create a New Remote Connection

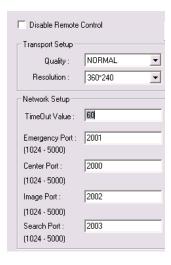


- 1. Select Start > Programs > Surveillix > Remote > Surveillix Remote Center. The Surveillix Remote Software opens and the Local Connection window opens.
- 2. Click New to open the Site Info window.
- 3. Select the Site Type and enter a Site Name. The Site Name will be the name displayed inside the connection box to help identify the server.
- 4. Enter the IP Address of the IPR server. By default the IPR is set to connect using DHCP.
- 5. Enter the Center Port. This setting is specified on the server.
- 6. Click OK.
- 7. Click the newly created connection and enter the login username and password. (case sensitive)
- 8. Click Connect.

Configuring the IPR

In order to access the IPR remotely, the IPR Server must be setup to allow remote connections.

Time Out Value	Specifies a value (in seconds) to wait for a signal from the Surveillix Remote Client. If a signal is not received by that time, the connection is dropped.
Center Port	Used to transfer the connection data.
Image Port	Used to transfer the image data.
Search Port	Used to transfer the search data.



Configuring the Server for Remote Connection

- 1. Enter Setup on the IPR.
- 2. Click the Network Setup button to open the Network Menu.
- 3. Clear the Disable Remote Control option. You should now be allowed to adjust port settings if necessary.

NOTE: If you are using a Firewall, it may be necessary to adjust the port settings on both the IPR and the Firewall. Contact the Network Administrator for more information.

- 4. Click OK.
- 5. Make sure a User account is created. Without a user account, the Administrator account must be used.
- 6. The IPR server is now ready to receive incoming connections.

Access Remote Connection

- 1. Open the Remote Software.
- 2. Click the icon of the server as defined previously.
- Enter the user name and password of an authorized remote user as defined in Network > Client Setup > User Account on the E-Series system.

NOTE: User Name and Password are both case sensitive.

4. Click the Connect button.

DIGITAL VERIFIER OVERVIEW

JPG images and .AVI video files that are exported from the Digital Video Recorder are automatically embedded with a digital signature. Digital Signatures are a way to verify the authenticity of the images to ensure that they have not been tampered with or edited in any way. Included on the Software Installation DVD supplied with the IPR is the Digital Signature Verification program. This program can be installed on any computer and loads an image in question.

Installing the Digital Verifier

- 1. Insert the Software Installation CD into the CD-ROM. (Do not install on the IPR.)
- 2. Select the Digital Verifier option to begin installation. When the Welcome screen appears, click Next.
- 3. When the Setup Complete window appears click Finish. Installation is complete.

Using the Digital Verifier

- 1. Open the Digital Verification program by selecting Start > Programs > Surveillix > Digital Verifier > Digital Signature Verifier.
- 2. Click the Browse button to load the .JPG image.
- Enter the Site Code of the IPR that the image was originally extracted from. (The Site Code is specified in the Site Information Setup Menu)
- Click the Verify button to continue or Close to close the window without verifying.



If the image has not been tampered with, a blue square will appear around the image with the message "Original image file."

If the image has been tampered with, a red square will appear around the image with the message "Entire image changed or wrong SITE CODE."





BACKUP VIEWER OVERVIEW

The Backup Viewer allows you to play back the exported video in its proprietary format. Video saved in this format is extremely difficult to tamper with and therefore is the ideal solution when law enforcement and the legal department are involved.

This video cannot be read by any other viewer.

The Backup Viewer operates essentially like the Search portion of the IPR software.

For detailed explanations of these functions, refer to the chapter on Search Options in this manual.



Installing Backup Viewer

- Insert the Software Installation DVD into the DVD-ROM. (Do not install on the IPR.)
- Select the Backup Viewer option to begin installation. When the Welcome screen opens, click Next.
- Read the License Agreement and select the appropriate radio button to accept the terms of the license agreement. Click Next.
- Select Yes to install the POS component or Select No for a basic install. Click Next.

NOTE: The POS component is only necessary when connecting to a server running the POS Upgrade.

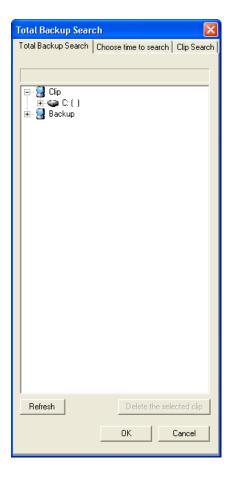
- When the Choose Destination Location window opens click Next. This will install Backup Viewer in the default destination folder.
- Select the shortcuts to install, or clear all boxes for no shortcuts. Click Next.
- When the InstallShield Wizard Complete window appears click Finish. Setup is now complete.

Loading Video from DVD or Hard Drive

- Open the Backup Viewer program: Start > Programs > Surveillix > Backup Viewer > Backup Viewer.
- Click the Open button. The Total Backup Search window will open.
- 3. For Clip backup files, expand Clip and select the desired drive

For Backup files, expand Backup and select the desired drive

- 4. Click the desired backup file or clip.
- Click OK. The video will load into the Backup Viewer.



SOFTWARE UPGRADES

This chapter includes the following information:

• SCS Multi-Site Management Software Upgrade

SCS OVERVIEW

SCS software is Network DVR Management Software; a powerful utility that allows 100 or more DVR units to be controlled using one computer. This software allows you to view live video, search saved video, edit and configure setup on each DVR, and import maps of buildings and other locations.

The SCS software was specifically designed as an enterprise software solution.

Highlights

View Live Video from most computers

Username and Password protected

Easy to use graphical interface

Basics:

In order to log in to the IPR server, a user account must be made for each user. This ensures that only authorized personnel are allowed to log in. In addition, each user can be assigned different privileges that allow them or deny them access to different functions.

Purchasing SCS Software Upgrade

Contact your Toshiba Sales Representative: Part Number SCS-OPT.

Configuring the Server for Remote Connection

- 1. Enter Setup on the IPR unit.
- 2. Click the Network Setup Button.
- 3. Uncheck the Disable Remote Control option. You should now be allowed to adjust port settings if necessary.

NOTE: If you are using a Firewall, it may be necessary to adjust the port settings on both the IPR and the Firewall. Contact the Network Administrator for more information.

- 4. Click OK.
- 5. Make sure a user account is created. Without a user account, the Administrator account must be used.
- The IPR server is now ready to receive incoming connections.

Connecting to an IPR

Refer to the Setup section of the SCS Manual for information on using the SCS Software.